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THE YEARBOOK OF  
THE UNIVERSITIES OF THE EMPIRE

THIRD CONGRESS OF THE UNIVERSITIES  
OF THE EMPIRE, 1926.

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REPORT OF PROCEEDINGS, INCLUDING  
ADDRESSES, PAPERS, AND DISCUSSIONS.

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LONDON : G. BELL AND SONS, LTD.

# THE YEARBOOK OF THE UNIVERSITIES OF THE EMPIRE

1929

EDITED BY T. S. STERLING, M.A., AND  
PUBLISHED FOR THE UNIVERSITIES  
BUREAU OF THE BRITISH EMPIRE



LONDON  
G. BELL AND SONS, LTD.

1929

## Reference



## PREFACE

THE *Yearbook* was first published in 1914. Before its advent the official University Calendars were the only authentic sources of information regarding the personnel, organization, regulations, and recent activities of universities. When British universities were few and university men took but little interest in the affairs of any except their own, the Calendars sufficed; but there are now 70, and each takes a growing interest in the others. The Calendars constitute a library of no mean dimensions—some 50,000 pages—and hardly anywhere except at the Universities Bureau are they all accessible. Much of their contents is of strictly local interest. In the *Yearbook* an attempt is made to extract from each of these bulky volumes such information as is likely to prove of interest to members of other Universities and Colleges, to Government Departments, Clubs, schoolmasters, and the public generally. It would be impossible to present a conspectus of this kind in a volume of manageable dimensions without resorting to the use of abbreviations and other devices for saving space. It is hoped that abbreviation has not been pressed beyond the limits of intelligibility.

In chapters introductory to the sections dealing with the Universities of Great Britain and Ireland, of Canada, of Australia, of South Africa, and of India, is collected such information regarding their history, regulations, and practice as they share in common. Each section comprises three parts:

(1) A directory of the officers and members of the staff of the University. Much trouble has been taken in preparing these directories to ascertain the sources of the various degrees held by teachers, since such information gives in a small space the educational history of their holders. If no name of a university follows a degree, it may be assumed that the degree was conferred by the university upon whose staff the teacher is serving.

With the exception of honours conferred by H.M. the King, titles other than degrees are omitted, unless they throw light upon the standing of their holders in the subjects which they profess. It is, for example, of interest to learn that a medical teacher of a university overseas holds diplomas of the Royal Colleges, whereas the addition of the letters M.R.C.S., L.R.C.P., to the name of a teacher in the

United Kingdom who is also M.D cannot be said to convey information of importance

(2) Under the heading "General Information" an account is given of the equipment in libraries, museums, laboratories, etc., of the university, the degrees, diplomas, and certificates which it confers, its composition fees, scholarships open to graduates, residential accommodation, extra-mural work, publications, etc.

(3) The accounts of the universities which hold good with modifications from one issue to another are followed by reports of events of outstanding interest which occurred during the past academic year. They include statistics of the numbers of students in attendance and degrees conferred. These annual reports will be of great importance to future historians of the universities.

Appendices may be classified as (a) Summaries of regulations for the diplomas of the Medical Colleges and other Associations and Institutions of the United Kingdom, and the conditions governing admission to various professions and careers for which university studies are a fitting preparation, (b) matriculation examinations, (c) admission of students from abroad into the universities of the United Kingdom, (d) lists of inter-university scholarships and fellowships, and grants for research; (e) lists of professional schools of the universities of the United Kingdom and the distribution of subjects in which these universities, severally, may be said to specialize, (f) list of centres of research outside the universities.

To this, as to the two previous editions, an Appendix has been added giving lists of titles of theses accepted for research degrees. Owing, chiefly, to the varying importance of thesis and examination in determining the award of a master's degree, it has been found necessary to restrict these lists to theses for the doctorate.

The Universities Bureau acknowledges gratefully the ungrudging help afforded by the official Registrars and other correspondents in the Universities. This help gives the book an authoritative character to which it could not otherwise pretend.

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*For initial letters of titles of degrees vide p. 15.*

[See also lists of medical qualifications in Appendix XI. In the appendices relating to the various professional associations some account is given of the examinations, etc., whereby their qualifications are obtained ]

A.C.A.	Associate of Institute of Chartered Accountants
A.C.G.I.	City and Guilds of London Institute.
A.C.I.S.	Chartered Institute of Secretaries.
A.I.C.	Institute of Chemistry
Assoc Inst M.M.	Institution of Mining and Metallurgy.
A.K.C.	King's College
A.L.S.	Linnaean Society
A.M.C.	Art Master's Certificate
A.M.I.A.E.	Associate Member of Institution of Automobile Engineers.
A.M.I.C.E.	" " " Civil Engineers
A.M.I.Chem.E.	" " " Chemical Engineers
A.M.I.E.E.	" " " Electrical Engineers
A.M.I.Mech.E.	" " " Mechanical Engineers.
A.M.Inst.M. and Cy.E.	" " " Municipal and County Engineers.
Assoc M.I.Min.E.	" " " Mining Engineers.
A.M.I.N.A.	" " " Naval Architects
A.M.Inst.P.T.	" " " Petroleum Technologists.
A.M.I.Struct.E.	" " " Structural Engineers.
A.R.A.M.	of Royal Academy of Music.
A.R.C.A.	" College of Art
A.R.C.M.	" " Music
A.R.C.O.	" " Organists
A.R.C.S.	" " Science.
A.R.E.	" Society of Painter Etchers.
A.R.I.B.A.	" Institute of British Architects.
A.R.S.M.	" School of Mines
A.R.T.C.	" Technical College, Glasgow
A.R.W.S.	" Society of Painters in Water-Colours.
C.A.	Chartered Accountant
C.D.A.	College Diploma in Agriculture
C.D.H.	" Horticulture
C.G.I.	City and Guilds Institute
C.S.S.	Certificate in Social Study (St Andrews)
Dip.d'E.S.	Dip.d'Etudes Supérieures
Dip.T.C.	Diploma of the Technical College, Zurich
D.I.C.	Diploma of Imperial College of Science and Technology.
D.M.R.E.	" in Medical Radiology and Electrology.
D.O.M.S.	" in Ophthalmic Medicine and Surgery
D.P.H.	" in Public Health.
D.P.M.	" in Psychological Medicine
D.S.C.	Distinguished Service Cross (Naval)
D.T.M.	Diploma in Tropical Medicine
D.V.S.M.	" in Veterinary State Medicine

# QUALIFICATIONS REFERRED TO BY LETTERS xi

F.A.C.S.	.	.	.	Fellow of the American College of Surgeons.
F.A.I.	.	.	.	" Auctioneers' Institute.
F.B.A.	.	.	.	" British Academy
F.C.A.	.	.	.	" Institute of Chartered Accountants.
F.C.S.	.	.	.	" the Chemical Society
F.C.I.S.	.	.	.	" the Chartered Institute of Secretaries.
F.G.S.	.	.	.	" Geological Society
F.I.A.	.	.	.	" Institute of Actuaries
F.I.C.	.	.	.	" Chemistry.
Fil Lic. (Upsala)	.	.	.	Licentiate in Philosophy
F.I.P.	.	.	.	Fellow of the Institute of Physics
F.I.S.E.	.	.	.	" Institution of Structural Engineers.
F.L.A.A.	.	.	.	" London Association of Accountants.
F.L.S.	.	.	.	" Linnean Society.
F.Ph.S.L.	.	.	.	" Physical Society of London
F.R.A.I.	.	.	.	" Royal Anthropological Institute.
F.R.A.M.	.	.	.	" Royal Academy of Music.
F.R.C.O.	.	.	.	" " College of Organists
F.R.C.P.	.	.	.	" " Physicians, London.
F.R.C.S.	.	.	.	" " Surgeons, England.
F.R.C.V.S.	.	.	.	" " Veterinary Surgeons.
F.R.I.B.A.	.	.	.	" " Institute of British Architects
F.R.S.	.	.	.	" " Society.
F.S.A.	.	.	.	" Society of Antiquaries
F.S.A.A.	.	.	.	" Society of Accountants and Auditors.
F.S.I.	.	.	.	" the Surveyors' Institute
F.S.S.	.	.	.	" Royal Statistical Society
F.Z.S.	.	.	.	" Zoological Society
K.H.S.	.	.	.	Hon Surgeon to the King
L.C.P.	.	.	.	Licentiate of the College of Preceptors.
L.D.S.	.	.	.	" in Dental Surgery
L.L.A.	.	.	.	" Lady Literate in Arts (St. Andrews)
L.R.A.M.	.	.	.	Licentiate Royal Academy of Music
L.R.I.B.A.	.	.	.	" of the Royal Institute of British Architects.
M.I.Ae E.	.	.	.	Member of Institution of Aeronautical Engineers.
M.I.A.E.	.	.	.	" " Automobile Engineers.
M.I.Chem E.	.	.	.	" " Chemical Engineers.
M.Inst C E.	.	.	.	" " Civil Engineers
M.Inst E E.	.	.	.	" " Electrical Engineers
M.I.Mech E.	.	.	.	" " Mechanical Engineers
M.Inst M and Cy.E.	.	.	.	" " Municipal and County Engineers
M.I.Min E.	.	.	.	" " Mining Engineers.
M.Inst M M.	.	.	.	" " " and Metallurgy.
M.I.N.A.	.	.	.	" " Naval Architects
M.I.P.T.	.	.	.	" " Petroleum Technologists.
M.I.Struct E.	.	.	.	" the Institute of Structural Engineers.
M.P.S.	.	.	.	" the Pharmaceutical Society
M.R.C.V.S.	.	.	.	" the Royal College of Veterinary Surgeons.
M.R.I.A.	.	.	.	" the Royal Institute of Anthropology.
M.R.S.I.	.	.	.	" the Royal Sanitary Institute.
M.S.A.	.	.	.	" the Society of Architects
M.T.P.I.	.	.	.	" the Town Planning Institute.
N.D.A.	.	.	.	National Diploma in Agriculture
N.D.D.	.	.	.	" " Dairying
N.D.P.	.	.	.	" " Poultry Husbandry.
N.F.U.	.	.	.	" " Froebel Union
O.A.	.	.	.	Officier de l'Académie.
O.I.P.	.	.	.	" d'instruction publique
P.A.S.I.	.	.	.	" Professional Associate of the Surveyors' Institution.
R.O.I.	.	.	.	" Royal Institute of Oil Painters.
S.S.C.	.	.	.	" Solicitor before the Supreme Court
T.D.A.	.	.	.	" Diploma of Agriculture, Transvaal.
Wh.Sch.	.	.	.	" Whitworth Scholar.
W.S.	.	.	.	" Writer to the Signet.

N.B.—The letters used in the Yearbook are not in all cases those authorized by the Associations; *eg* M.Inst.C.E. is sometimes abbreviated to M.I.C.E., M.I.Mech.E. to M.I.M.E., F.Inst.P. to F.I.P.

## THE UNIVERSITIES BUREAU OF THE EMPIRE

At the final, Delegates', meeting of the Congress of 1912 it was resolved that steps be taken for the formation in London of a Bureau of Information for the Universities of the Empire. From its inception until November 1919 the Bureau was, by the great courtesy of the Director, allowed the use of a room in the Imperial Institute. In the spring of 1919 the Government offered a non-recurrent grant of £5000 to enable the Committee to secure and furnish premises suitable for the wide activities which the Bureau had developed, on condition that the Universities of the Empire undertook to provide funds adequate to its maintenance. The Committee thereupon purchased the lease of No. 50 Russell Square. Offices in this building have been let to—

THE BRITISH DIVISION OF THE AMERICAN UNIVERSITY UNION  
*Director*—NOEL T DOWLING, A M, LL B    *Associate Director*—R. H. SIMPSON, M A

OFFICE NATIONAL DES UNIVERSITÉS ET ÉCOLES FRANÇAISES  
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THE COMMONWEALTH FUND ; Committee of Award.

*The Committee of the Universities Bureau desire to welcome members of any of the Universities of the King's Dominions overseas who may visit London, and to place the resources of the Bureau at their disposal. By calling at the Bureau or writing to the Secretary, visitors from overseas can obtain information regarding forthcoming lectures, conferences, etc., and by registering their names and addresses (whether by calling or by letter) they will enable the Bureau to offer them opportunities of getting into touch with one another.*



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# UNIVERSITIES OF GREAT BRITAIN AND IRELAND

HISTORICAL SUMMARY—ADMISSION AS AN UNDERGRADUATE—ADMISSION OF STUDENTS FROM ABROAD—NUMBER OF FULL-TIME STUDENTS—NATIONAL UNIONS OF STUDENTS—TERMS—FEES—SCHOLARSHIPS—LIBRARIES—UNIVERSITY GRANTS—REPRESENTATIVES IN PARLIAMENT—UNIVERSITY EXTENSION—CONFERENCES—STANDING COMMITTEE OF VICE-CHANCELLORS—INTERNATIONAL CONFERENCES—INTERCHANGE OF TEACHERS AND STUDENTS—CONGRESSES OF THE UNIVERSITIES OF THE EMPIRE—DEGREES.

UNIVERSITIES were the outcome of the great intellectual revival which affected Europe in the twelfth and thirteenth centuries. Shortly after the Schools of Bologna and Paris had developed into what we now term Universities, similar seats of learning arose at Oxford and Cambridge, the nucleus of organization being, as at Paris, a corporation of masters—not, as at Bologna, a corporation of students—and many of the students being boys of fourteen or even younger. Instruction was in the form of lectures by licensed teachers. To the Seven Liberal Arts of the mediæval schools (the “trivium”—GRAMMAR, LOGIC, and RHETORIC, and the “quadrivium”—ARITHMETIC, GEOMETRY, MUSIC, and ASTRONOMY) the Universities added the three higher “Faculties” of THEOLOGY, LAW, and MEDICINE in order to provide complete preparation for the learned professions. The Scottish Universities, except Edinburgh, were founded in the fifteenth century, but the country had not been greatly influenced by the Revival of Learning, and although the earliest Reformers were in touch with continental scholars, and some attempts were made to introduce the New Learning into the schools and universities, the mediæval scholastic tradition remained paramount in St Andrews and Glasgow until the seventeenth century. Aberdeen was more receptive to *renaissance* influences. The University of Edinburgh originated in a College established by the Town Council in 1583. Trinity College, Dublin, was founded by Queen Elizabeth in 1591 on the lines of the Oxford and Cambridge colleges.

After the Reformation a demand arose in England for education of a more secular type, but the Acts of Uniformity (1559 and 1662) and similar measures stereotyped the schools and universities as clerical and theological institutions, and by the latter half of the eighteenth

century the teaching in the Universities had become mainly traditional and formal, and they were rapidly losing their hold on the national life.

Readjustment to modern conditions took place in the course of the nineteenth century. Already in 1779 Protestant Dissenters, and in 1791 Roman Catholics, had been emancipated from the ban against their following the teaching profession. The few Denominational tests retained by the older Universities were abolished in 1871. Oxford in 1800 established a system of written examinations for the bachelorship, and Cambridge in 1824 the classical Tripos. Soon afterwards both Universities instituted non-classical Honour examinations. The University Commissioners of 1850 and 1877 made provision at Oxford and Cambridge for the endowment of the teaching of modern subjects, and the throwing open of scholarships to students of such subjects removed practically all obligations to take orders in the Church of England, and did much to make the Universities accessible to all classes of the community.

Meanwhile the foundation in 1828 on a strictly undenominational basis of what has now become University College, London, provided a teaching institution of University rank free from all restriction of tests. The University of Durham obtained its charter in 1837. In its original conception it followed closely the lines of Oxford. It was partly endowed out of the funds of the See and Chapter of Durham. The Colleges in which the other English Universities originated were founded as follows: Owens College, Manchester, 1851; Yorkshire College, Leeds, 1874; University College, Bristol, 1876; Firth College, Sheffield, 1879; Mason College, Birmingham, 1880; University College, Liverpool, 1881, the University Extension College, in conjunction with the Schools of Science and Art, Reading, in 1892. Created to minister to local needs and supported largely by local benefactions, they were naturally closely associated with local industries, and from the first laid stress upon the study of mathematical, scientific, and modern subjects. Reading differs from the others in having been established in a town of comparatively small size (population less than 100,000), in the large share of its resources devoted to work in connexion with the agricultural and associated industries, and in its policy of making residence in college or hostel the rule for its students. The Royal College of Science and the Royal School of Mines originated in a Technical School formed in 1851 in connexion with a Museum of Practical Geology. They, together with the City and Guilds (Engineering) College, founded in 1881, became integral parts of the Imperial College of Science and Technology which was established in 1907 with the declared purpose of giving the highest specialized instruction and providing for research in the various branches of science, especially in its applications to industry.

A University of Wales was projected early in the fifteenth century and the project was revived in Cromwell's time, but it did not materialize until 1893. The constituent colleges at Aberystwyth, Cardiff, Bangor, and Swansea were founded in 1872, 1883, 1884, and 1920 respectively. They are thoroughly indigenous to the Principality,

much of the funds having been collected in very small sums from workpeople at the doors of churches and chapels.

The two modern Irish Universities both date from 1909. In 1850 a Royal Charter was granted to the then recently established Queen's Colleges of Belfast, Cork, and Galway, constituting them a Federal University, which was absorbed in 1880 in the Royal University. University College, Dublin, representing the Catholic University established by the Irish Bishops in 1854, became with the Cork and Galway Colleges in 1909 constituents of the National University of Ireland, while Queen's College, Belfast, became the Queen's University of Belfast.

WOMEN were first admitted to Degrees by the University of London in 1878. Bedford College had already been founded in 1849; the three other colleges for women in connexion with the University of London were founded, Westfield in 1882, Holloway in 1886, and King's in 1902. Of the Cambridge colleges Girton originated at Hitchin in 1869, and was removed to the near neighbourhood of Cambridge in 1873; Newnham was founded in 1880. The colleges at Oxford were opened, Lady Margaret in 1878, Somerville in 1879, St Hugh's in 1886, and St Hilda's in 1893. Cambridge admitted women informally to Tripos examinations in 1872 and to the titles of degrees in 1923; in 1926 women were declared eligible to university teaching posts and therefore to membership of boards of faculties. Oxford admitted them to examinations in 1884, to degrees and full membership in 1920, and to university teaching posts in 1927. Women have been admitted to the Universities of Scotland since 1892, Durham since 1896, Dublin since 1904, and to all the modern Universities from their foundation.

Unlike those of most other countries, the Univs. of the United Kingdom have been, since their origin, independent of State control. Another distinguishing characteristic of British Univs., as compared with those of the Continent of Europe, has from the earliest days been the provision of halls of residence, or COLLEGES, in which students live as members of a community, with the privileges of social intercourse and subject to the mutual influence which corporate life exerts.

Pursuant to the recommendations made by the Royal Commission of 1919, important constitutional and other changes have been effected at Oxford and Cambridge by the Statutory Commissioners appointed in 1923. See the sections relating to these universities.

**ADMISSION AS AN UNDERGRADUATE.** Before inserting a student's name in *matricula* all Univs. exact evidence that the applicant's intellectual equipment fits him to undertake a course of study for a degree. This is tested either by a matric. examn. held by the Univ. or group of Univs. concerned (Camb "Previous," Oxf. "Responsions," Scot Univs. "Prelim."), or by the candidate's performance in an equivalent examn. The subjects in which the candidates are tested in the matric. examn. by the Univs. are *English, one or more languages other than Eng. (classical or foreign), Maths., and/or Science*; and a pass in 5 subjects at one and the same examn. is, as a rule, demanded. The grouping of the several subjects varies in the different Univs. For

details see App. XX. Many of the Oxford and Cambridge Colleges make the passing of Responsions or the Previous or equivalent exams a condition of admission to the College. Bristol has discontinued its matricn examn. as superfluous in view of the institution of the School Certificate and Higher Certif. exams (v. *infra*), and the admission to them of candidates not presented by schools. Durham has followed Bristol's example so far as the Colleges at Newcastle are concerned. Reading holds neither school exams nor, except for candidates of mature years (25 or over), a matriculation examn., accepting, instead, credentials required by London or the Joint Board.

*A Matriculation Examination for persons of mature years* has been instituted by the above-mentioned Joint Board (v App XX), and by Belfast and Reading. Armstrong College has a special examn. for candidates proposing to read for a degree in Applied Science who have been engaged in technical pursuits for 2 years.

*School Examinations—England and Wales* A scheme originated by the Board of Education in consultation with all the Univs. of England for co-ordinating Secondary School exams, came into operation in England in 1918 and in Wales in 1920. Under this scheme the following are recognized by the Board as approved—

I. As "First Examinations," suitable for pupils about the age of 16, the standard being such that a Pass with Credit in a certain number of subjects in the three main groups of School subjects (English subjects, Foreign Languages, Mathematics and Science) would entitle a candidate to admission to a Univ. —

"School Certificate" exams of the Oxford and Cambridge Schools Examn. Board, of the Oxford Delegacy for Local Exams and the Cambridge Local Exams Syndicate (formerly known as "Senior Local" exams), of the Univs. of Bristol and Durham, and of the Northern (Birm., Leeds, Liv., Manc., Sheff.) Univs. Joint Matricn. Board; "The General School" examn. of London, and the School Certificate examn. of the Central Welsh Board.

In addition to the three groups of subjects above mentioned, First Examinations include a fourth group of optional subjects, such as Music, Drawing, Manual Work, Needlework, Housecraft. Excellence in these subjects will not exempt a candidate from the necessity of reaching a minimum standard in each of the other groups.

II As "Second Examinations," suitable for pupils about 2 years older, framed on the assumption that the candidate has, after the stage marked by the first examn., followed a more specialized course —The "Higher Certificate" exams. of the Oxford and Cambridge Schools Exams. Board, Bristol, Durham, the Northern Univs. Joint Board, London, Oxford (Delegacy for Local Exams), Cambridge (Syndicate for Local Exams.), and the Central Welsh Board.

With a view to securing equality of standard and the acceptance of the certificates by Univs. and Professional Bodies, the Board of Education exercises a co-ordinating authority with the help of a "Secondary School Examinations Council" composed of 23 repre-

representatives of the Examining Bodies, County Councils Assocn., Assocn. of Municipal Corporations, Assocn. of Education Committees, and Teachers' Registration Council. The Examinations Council keep in close touch with the Examining Bodies and conduct a regular scrutiny of their statistics, regulations, and syllabuses. In addition a detailed investigation of the methods and standards of award is held from time to time. Provision is made for ensuring that teachers in the Schools are brought into touch with the Examining Bodies (supplied in all cases by the Univs.), that a School is examined, if it so desires, on its own syllabus, unless the Examining Body considers it inadequate; and that estimates of the merits of their candidates in each of the subjects offered by them if submitted by Head Masters and Head Mistresses are taken into account in the award of certificates.

Schools are not required as a condition of recognition for grants to take these exams, but Schools on the grant list entering pupils for them under conditions approved by the Board receive an additional grant in respect of the examn fees of each pupil so entered. The entrance of pupils attending grant-earning secondary schools for any examination below the stage of a First Examn. is closely restricted.

Among the functions of the Secondary School Examns Council is negotiation with Univs. and Professional Bodies for the acceptance of the examn. certificates as exempting the holders from certain other exams. They are now accepted, subject to various qualifications, by all English Univs. and by a number of professional bodies (v Appen-dices), as exempting from entrance exams. The "Second Examinations" are also recognized by many Univs. for exemption from Intermediate Exams. and for admission to Honours courses, etc.

*Wales.* The School Certificate of the Central Welsh Board showing a pass with credit at one and the same examn. in all the required subjects of the matricn examn is accepted by the Univ. for matricn.; so, also, are certifs. of the other First Examns (except Durham's), the Scotch Educn. Dept's Leaving Certif. (Higher Grade), the Senior Certif. of the Ministry of Educn. for Northern Ireland, and the Leaving Certif. of the Intermediate Education Commissioners of the Irish Free State.

*Scotland.* On December 31, 1918, there came into operation Ordinance No 70 (General No 3) of the University Courts of the four Scottish Univs. as to Admission for purposes of graduation. This defines the normal test of fitness as "the production of evidence duly attested by a competent authority of the satisfactory completion of a suitable course of secondary education," and sets up an Entrance Board to regulate the application of this principle. This Board, which has superseded the Joint Board of Examiners for the Scottish Univs., has provided by "General Regulations" for the recognition of Group Certifs. of the Scotch Education Dept. and, in the case of Schools in Scotland not regularly presenting candidates for these certifs., other evidence of completion of suitable courses. It has similarly provided for the recognition of Leaving or other certifs., in the case of applicants from outside Scotland. The admission of applicants who, owing to exceptional

circumstances, have not been able to fulfil the normal conditions is provided for by "Special" Regns.

*Ireland.* The Leaving Certificate of the Dept. of Education of the Irish Free State or the Senior Certificate of the Ministry of Education of Northern Ireland is accepted by the Univ. of Dublin and the National Univ. of Ireland, subject for subject, in lieu of their matricn examns, and (subject to special conditions in respect of Maths) by Belfast. Belfast and the N.U.I. also accept, subject for subject, the Scottish Leaving Certif. (Higher or Hons.), the Higher Certif. of the Ox. and Camb. Schools Examn. Board, and (Belfast only) the Bristol School Certif. For admission to the Univ. of Dublin the Senior Lecturer is now allowed to recognize examns as "equivalent" to the Entrance examn, and does so recognize the Scottish Leaving Certificate and others.

**SCHOOL EXAMINATIONS IN OTHER COUNTRIES.** In Appendix XXII are to be found particulars of the recognition accorded by certain Univs in the United Kingdom to School-leaving examns conducted by Ministries of Education in Canada, Australia, South Africa, and Egypt, and Boards of High School and Intermediate Education in India. This is done explicitly by Oxford, Cambridge, the Northern (English) Univs. Joint Board, Wales and the Scottish Univs. Entrance Boards.

**ADMISSION OF STUDENTS FROM THE KING'S DOMINIONS OVERSEAS AND FROM FOREIGN COUNTRIES.** Certificates which would qualify for admission to Univs outside the United Kingdom are accepted as satisfying, in whole or in part, the matricn requirements of the Univs. of the United Kingdom. Intending students should apply for information to the Registrar of the Univ. in which they desire to be matriculated. A summary of existing regulations is given in Appendix XXII.

The **NUMBER OF FULL-TIME STUDENTS** in Universities and University Colleges in receipt of Treasury Grant is given in the Returns published by the University Grants Committee for the year 1926-27 as 42,354, including 12,861 women. To these must be added the students of the Irish Universities and of certain schools of the University of London not in receipt of Parliamentary Grant, making a total of, approximately, 48,000. The above statistics do not include the students of the institutions, other than Universities and University Colleges, in which professional education of university grade is given in Theology, Teaching, Agriculture, Mining, etc.; nor students reading privately for the external degrees of the University of London, for the Bar, etc. This makes comparison with statistics of other countries difficult, as does also the fact that the work of the higher forms of many of our secondary and "public" schools corresponds with the earlier stages of the work done in Colleges and collegiate departments of Universities elsewhere, e.g. in America.

A **NATIONAL UNION OF STUDENTS** of the Univs. and Univ. Colleges of England and Wales was formed in Feb. 1922 "to represent the students of this country nationally and internationally," and to promote their educational and social interests in entire independence of



all political or religious propaganda. It is a federation of Unions, Guilds, and Student Representative Councils. It is affiliated to the *Confédération Internationale des Étudiants* (see Appendix XXIV.), through which it has taken an active part in promoting foreign travel of English students and stimulating intercourse with students abroad. In July 1924 a conference of Dominion student representatives was held at London and Cambridge to discuss ways and means of practical co-operation between students of the Empire, together with general Imperial problems. Two results of this conference have been the formation in England of the Dominion Students' Athletic Union and the visit of a Debating Team representing the Univs. of Great Britain to Canada, New Zealand and Australia. In 1926 the team, consisting of four men, left England in Jan. and returned in July, having visited all the Univs. of the three Dominions. *Publication*—"The University," once a term, 6d. *Address*—3 Endsleigh Street, London, W.C.1.

THE STUDENTS' REPRESENTATIVE COUNCILS OF SCOTLAND hold an annual inter-univs. conference, and jointly, as a national organisation, count as one member of the International Confederation of Students. They have a joint *International Academic Committee* which appoints "Academic Consuls" in the principal univ. centres in countries outside Great Britain. They have published a handbook on Foreign Study (Darien Press, Edinburgh, 3rd edition, 1926; 1s.).

TERMS. The academic year is divided into three terms, which run from about Oct. 1 to the middle of Dec.; middle of Jan. to end of March; middle of April to end of first week in July.

FEES are charged by all Universities. They vary somewhat in the different Univs., but are, on the average, for Arts £30, for Science £36, for Engineering or for Medicine £30 to £60 per annum in English Univs. In Scottish, Welsh, and Irish Univs. the fees are lower.

SCHOLARSHIPS. Few countries offer a richer variety of facilities of access to the highest forms of education than England and Wales. The lead of the "pious founder" has been followed by city companies and professional bodies, and, since the Education Act of 1902 brought higher education within the purview of Local Authorities, by the State. The response to the principle which found expression in the words of Mr. Fisher's Education Act of 1918 that "children and young persons should not be debarred by inability to pay fees from receiving the benefits of any form of education by which they are capable of profiting" has been so remarkable that, on March 31, 1928, L.E.As were assisting more students to take courses at Univs. (5735) than they were helping to obtain Secondary education before the Act of 1902 was passed (about 5500). From the grant-aided Secondary Schools of the country alone, with their 385,000 pupils, over 150,000 of whom hold free places, a steady stream of some 3300 students, more than 62 per cent. of whom commence their education in Public Elementary Schools, passes each year to the Univs. and University Teachers' Training Departments. The number of scholarships available and their variety, as regards conditions of tenure, put any attempt to give a comprehensive list out of the question. Those in search of assistance should apply for their Local

Education Authority's Scholarship Handbook \* The main agencies in England and Wales by which scholars are assisted to attend Univs may be classified, in the order of the probable number of awards made and the annual expenditure incurred: (i) *Local Education Authorities*. The majority of awards are given to candidates who have done good work in College Scholarship and the Higher School Certificate Examns., though a number of Authorities hold examinations of their own or grant assistance upon a consideration of school records The expenditure of L E As. on awards current in the year 1925-26 was £243,597 (ii) "*Open*" *Scholarships awarded by the Univs or their individual Colls* A brief notice of scholarships open to graduates will be found in the general information regarding each Univ No particulars are readily available to show the total number of entrance scholarships and exhibitions awarded annually About 550 awards are made each year by Oxford and Cambridge (iii) *State Scholarships* About 200 are awarded annually by the Board of Education to boys and girls in full-time attendance at grant-aided Secondary Schools, on the recommendation of the Bodies that conduct the Higher Certificate Examns, to scholars who may be expected to obtain a Degree in Honours Analyses of these awards and the courses and degrees taken will be found in the statistical information published annually by the Board of Education The expenditure upon awards current during the year which ended on the 31st March 1928 was £58,878 (iv) *Leaving Scholarships and Exhibitions awarded by Endowed Schools* The expenditure upon such awards current in the year 1926-27 from the 458 Endowed Schools on the grant list of the Board was £38,379 To these must be added 343 Schools recognized as efficient by the Board, but not on the grant list, for which figures are not readily available (v) *Charities unattached to Schools, but with power to offer Exhibitions under their Instruments of Government* The number of educational charities in the country is extremely large Information in regard to scholarships available in any particular area can usually be obtained by application to the L E A Some of the larger funds open to the whole country are indicated in Appendix XXIII Further particulars will be found in the Annual Charities Register and Digest It should be understood that assistance is often accorded from complementary sources. The holder of a Major Scholarship of a L E.A may, for instance, also hold a State Scholarship or College award, or possibly (with an upward limit of the total amount of assistance) all three

For Scholarships in Scottish Univs, v Section on Scot Univs

In Ireland conditions are similar to those in England and Wales.

**LIBRARIES** In each of the sections relating to the universities everally will be found a brief note on this subject. A University Library Co-operation Inquiry Office has been established by the Associa-

\* Some of the Scholarship Handbooks, e.g. that published by the London County Council (P. S. King & Son, Ltd, 14 Gt. Smith St, Westminster, S W 1, price 3d) include a great deal of information in regard to general sources of assistance open to the whole country as well as assistance available for persons actually resident in the particular area.

tion of University Teachers with the help of a grant from the Carnegie United Kingdom Trustees. It will endeavour to discover for research workers in what library, if any, any publication or MS. is available, and whether it can be lent. Address : L. T. Oldaker, Esq., The University, Edmund Street, Birmingham. Any inquiry should be accompanied by a list of the libraries which the inquirer has already tried in vain. Full details of all university and college libraries may be found in *The University and College Libraries of Great Britain and Ireland : a Guide to the Material Available for the Research Student*, by L. Newcombe, Bumpus, 1926. This book gives details of the contents of some 300 university and college libraries, with special reference to those collections which are likely to be of value to the research student. The Association of Special Libraries and Information Bureaux, 26 Bedford Sq., W C 1, was established in 1925 with the help of a grant from the Carnegie Trustees. In 1928 the Association published in conjunction with the Oxford Univ. Press *The Ashib Directory*, a guide to sources of specialized information in Great Britain and Ireland. Price £1. 1s.

PARLIAMENTARY GRANTS TO UNIVS AND UNIV. COLLEGES. Prior to 1889 the English Univs and Univ. Colls were dependent for their incomes upon endowments, subscriptions and students' fees. In that year a Treasury Grant of £15,000 p.a. was made to the English Univ Colls. and the College at Dundee. At the same date each of the three Welsh Univ Colls was receiving £4000 p.a., and the Scotch Univs a statutable Grant of £42,000, to which was added in 1892 under the Education and Local Taxation Account (Scotland) Act an annual Subsidy of £30,000. Between 1826 and 1895 sums amounting to £380,000 were contributed by Government towards the cost of enlarging the buildings of the Scottish Univs. In Ireland the Queen's Colleges of Belfast, Cork, and Galway were established in 1845, the three buildings costing a total of £100,000. Each College received a Government Grant of £7000 p.a. The Queen's Univ. was established in 1850, as an examining body. Its annual Subsidy, varying with the estimates, never exceeded £5000. In 1879 the Queen's Univ was replaced by the Royal Univ, also an examining body, but differing from the Queen's Univ in that students other than those of the Queen's Colls. were admitted to its exams. It also gave fellowships, scholarships, and prizes. Until 1883, when, in accordance with the Act of Parliament by which it was established, it obtained its income of £20,000 p.a. out of funds released by the disestablishment of the Church of Ireland, its expenses were met in the same way as in the case of the Queen's Univ.

In 1896 two Commissioners were appointed by the Treasury to inspect the equipment and report upon the work of the 12 Univ. Colls in England and at Dundee participating in the Grant (£15,000 p.a.) of 1889 and 2 which were claimants for Grants. In recognition of their increased activities and of additional support received from rates and private benefactions the total Grant was increased to £25,000 p.a. In their Report on the Univ. of Birmingham (into which the Mason College had been transformed in 1900), the 11 other Univ Colls to which Grants had been assigned, and 3 claimants, the two Commis-

sioners appointed in 1901, submitted evidence of growth qualifying for increased financial aid; but owing to the South African War no action, with the exception of the addition of the Univ Colls of Reading and Southampton to the list, each receiving £1000, was taken by the Treasury until 1905, when the total Grant was increased to £100,000. In Jan. 1906 a Permanent Committee was appointed by the Treasury "to advise the Department as to the distribution of the Grant in aid of Colleges furnishing Education of a Univ Standard" The Committee forthwith proceeded to appoint two inspectors to report upon the 14 Univs. and Univ. Colls receiving Grants and 3 claimants By this time, in addition to Birmingham, Leeds, Liverpool, Manchester and Sheffield possessed Univs, to each of which £2000 p a had been granted towards the cost of examns. and the giving of degrees The Univ. of London also received £8000 p a

In 1909-10 the Grant to the English Univs and Univ Colls and to Dundee was raised to £150,000 In 1907 a Treasury Committee was appointed "to inquire and report upon the University of Wales and its constituent Colleges" (The present Secretary to the Bureau was one of the two Commissioners in 1901 and again in 1906 and a member of this Committee.) Following the issue of the Committee's Report in 1909 the Grant to the 3 Welsh Colleges was increased to £25,000 In 1919 the Advisory Committee was dissolved and the Univ Grants Committee appointed "to inquire into the financial needs of Univ. Education in the United Kingdom and to advise the Government as to the application of any Grants that may be made by Parliament towards meeting them" The total Grant was increased to £1,000,000 Including Emergency Grants to Cambridge, Oxford, and Trinity College, Dublin, the sums assigned in 1920-21 were: Annual Grants £909,240 (including Ireland £111,000), Non-recurrent Grants £304,000 (including Ireland £67,000) The total Grant for 1921-22 was £1,500,000, and in addition a sum of £500,000 was provided to assist the Institutions to provide retrospective superannuation benefit for their staffs, the grant for 1922-23 for Great Britain only was £1,169,000, which was also the amount of the grant for 1923-24. The grant for 1924-25 was £1,242,570; for each subsequent year £1,550,000.

REPRESENTATIVES IN PARLIAMENT Oxford (2), Cambridge (2), London, Wales, Scottish (3), Dublin, National of Ireland, Belfast—v the sections relating to these Univs

Birmingham, Bristol, Durham, Leeds, Liverpool, Manchester, Sheffield, Reading—SIR ALFRED HOPKINSON, M.A., B C.L.; SIR MARTIN CONWAY, M A.

ADULT EDUCATION. *University Extension* Courses have been promoted by the Univs of Cambridge, Oxford and London for the last 50 years. At Cambridge they are known as local lectures and were initiated in 1873 Oxford and London took up the work soon afterwards. These courses number several hundreds and vary in length from 6 to 25 lectures; the longest extend over several years.

In 1903 *The Workers' Educational Association* was founded. In 1907 relations were established with Oxford Univ. Since that date

relations have been established with all the Univs. and Univ. Colleges, and there are joint committees composed of representatives of the Univ. or College and the W.E.A., which promote Preparatory Classes, Three-Year Tutorial Classes, Advanced Classes, Vacation Courses, etc. Preparatory Classes and Tutorial Classes are recognized by the Board of Education for purposes of GRANT UNDER CHAPTER II. OF THE ADULT EDUCATION REGULATIONS.

The *Adult Education Committee* was appointed by the President of the Board of Education, in April 1921, to promote the development of liberal education for adults, and in particular to bring together national organizations concerned with the provision of adult education, so as to secure mutual help and prevent overlapping and waste of effort; to further the establishment of local voluntary organizations for the purpose and of arrangements for co-operation with Local Education Authorities; and to advise the Board of Education upon any matters which the Board may refer to the Committee. It was re-appointed by successive Presidents in 1923 and 1925. It includes representatives of all Univs. in England and Wales, and of the principal voluntary organizations engaged in the work of Adult Education; also three representatives of Local Education Authorities. Assessors are appointed by the Board of Education, the Army Council and the Air Ministry. Since 1921 the Committee has been engaged on many inquiries, and the following Reports have been published by H.M. Stationery Office, Adastral House, Kingsway, London, W.C.2: Paper No. 1—Local Co-operation between Univs., Local Education Authorities and Voluntary Bodies. (Price 4d) No 2—Recruitment, Training and Remuneration of Tutors. (6d) No 3—Development of Adult Education in Rural Areas (6d) No. 4—Development of Adult Education for Women. (6d) No 5—British Music. (6d.) No. 6—The Drama in Adult Education. (1s.) No 7—Full-time Studies (6d) No 8—Natural Science in Adult Education (6d) No 9—Pioneer Work and other Developments in Adult Education (6d)

The *British Institute of Adult Education*, 39 Bedford Square, London, W.C.1, has compiled a Handbook and Directory of Adult Education (Year Book Press, London, 2s. 6d), and issues a half-yearly review, The Journal of Adult Education, 2s 6d.

**CONFERENCES** In May 1917 representatives of the Universities and University Colleges met in Conference to devise measures for the further encouragement of Post-graduate Study and Research. It was resolved that it was desirable that a degree should be instituted carrying the title of Doctor, obtainable by graduates of British and foreign Univs. after a course of advanced study and research. The conditions and regulations for such a degree were further considered at adjourned meetings held on May 10, 1918, Jan. 24, 1919, and March 14, 1919. The resulting legislation is summarized on p 18. Interchange of Teachers and Students, the Tenure of University Offices, Superannuation and Provision of Pensions, and other matters have been considered by Conferences specially convened at various times.

In May 1918 Mr Balfour summoned at the Foreign Office a Con-

ference of representatives of all the Universities for the purpose of putting before them a proposal that on the invitation of the Govt. of the U.S. a Universities' Mission should be sent to America. At this meeting Mr. Balfour took the opportunity of pressing upon the Univs the desirability of establishing a representative body to which matters of interest to the Univs. might be referred by Govt. Departments. He urged the necessity of the creation of "an organ of expression" which would voice the desires and aspirations of the British Univs. and represent them in their relations with the Univs of other nations. At a subsequent meeting Conference resolved that "it is desirable in the interests of the Univs and of the nation that steps be taken to promote co-operation and mutual consultation among the Univs. of Great Britain and Ireland, and, further, that the Vice-Chancellor or Principal of each Univ. or a deputy appointed by him, together with the Executive Committee of the Universities Bureau, be appointed a **STANDING COMMITTEE** to consider any matters of common interest arising out of the proceedings of this Conference or submitted to it by the Govt., and to report from time to time to the Conference."

The Standing Committee of Vice-Chancellors has dealt with such matters as the presentation of the case for Increased Grants to Univs and Univ Colleges, leading to the Deputation to the Chancellor of the Exchequer which was received in Nov 1918, and to a similar deputation received in 1924; the relations of the Univs and Univ Colleges to national schemes for the Promotion of Research; the question of controlling the number of students in professional and other subjects, the Recognition of the Special Army Education Certif., as qualifying for matriculation; Fees for Courses of Undergraduate and for Post-graduation Study and the possibility of adopting a uniform scale in each of the several Faculties of all Univs of the U.K., the relations of the Univs to Training Colleges for Teachers; qualification for admission to courses leading to the Ph D. degree, recognition of foreign school-leaving certificates as qualifying for matriculation, salaries of members of staff, recognition of records of students from Australia, Canada, S Africa, and India, specialization in certain subjects of study by certain Universities\*, the mutual recognition of Matriculation exams. and Degree courses of study, Income-tax on funds invested for provision of pensions, Inhabited House Duty on hostels and other legal liabilities of Universities, the replenishing of the libraries of the Univs of Louvain, Nancy, Tokio.

At the **ANNUAL CONFERENCE** of the Univs. of Great Britain and Ireland held in Liverpool on May 12, 1928, the subject discussed was The contribution of the Universities to the preparation of teachers for their vocation. (1) What is the essential service which a University can render to the education of the intending teacher? (2) What should be the relation of Universities to the specialized professional training of teachers? A report of the proceedings was printed. Copies are obtainable from the Universities Bureau, 50 Russell Square, price 1s.

**INTERNATIONAL CONFERENCES.** Following the Mission to America

\* Vide Appendix XXV.

already referred to, the British Univs. in May 1919 accepted an invitation to appoint a delegation to visit the Univs of France as guests of the French Republic. In the autumn of 1919 a similar invitation was accepted from the Belgian Govt. In July 1920, 17 Professors of English, and in July 1921, 32 Professors of History, from many parts of the U S A and the British Dominions overseas, met their colleagues of the Universities of the U.K. in conference at the invitation of the University of London to discuss methods of research and teaching and to elaborate plans of co-operation. The Conference of 1921 synchronized with the opening of the University of London Institute of Historical Research. A Conference of British and Swiss Universities was held at Bâle in 1922. By invitation of Columbia University a Conference of British and American teachers of English was held in New York in June 1923. An Anglo-American Conference of Professors of History took place at Washington and Richmond (Virginia), Dec 27-30, 1924, and in London (Institute of Historical Research), July 12-17, 1926.

INTERCHANGE OF TEACHERS AND STUDENTS between the Univs of the King's Dominions overseas and of foreign countries and the Univs. of the U K. In May 1919 a Committee was established for the purpose of promoting interchange. This Committee was discharged in March 1922 and replaced by another consisting of the Interchange Correspondents of the Bureau in the various Univs. See, in this connexion, Appendices XXI., XXII, and XXIII.

#### CONGRESSES OF THE UNIVERSITIES OF THE EMPIRE

The FIRST CONGRESS of the Univs of the Empire was held in London on July 2 to 5, 1912. All the Universities of the Empire were represented. Subjects discussed. "Specialization among Universities," and "Inter-University Arrangements for Post-graduation and Research Students," Chairman, the Earl of Rosebery and Midlothian, Chancellor of the Univs. of London and Glasgow, and Lord Rector of the Univ. of St. Andrews, "The Relation of Universities to Technical and Professional Education and to Education for the Public Services," and "Interchange of University Teachers," Chairman, the Earl Curzon of Kedleston, Chancellor of the Univ. of Oxford, "The Problem of Universities in the East in regard to their Influence on Character and Moral Ideals," and "Residential Facilities," Chairman, Mr A. J. Balfour, Chancellor of the Univ of Edinburgh; "Conditions of Entrance to Universities, Equivalence and Mutual Recognition of Entrance Tests," and "Action of Universities in Relation to the After-careers of their Students," Chairman, Lord Rayleigh, Chancellor of the Univ. of Cambridge, "Courses of Study and Examinations for other than Degree Students, University Extension and Tutorial Class Work," Chairman, Lord Kenyon, Senior Deputy Chancellor of the Univ. of Wales, "The Establishment of a Central Bureau, its Constitution and Functions," "The Position of Women in Universities," and "Representation of Teachers and Graduates on the Governing Body of a University," Chairman, Lord Strathcona and Mount Royal, Chancellor of the Univs. of Aberdeen and McGill.

The SECOND CONGRESS of the Univs. of the Empire met in Oxford on July 5 to 8, 1921. All members received, and upwards of 300 accepted, offers of hospitality, either from a College or from a resident member of the Univ., for the four days during which Congress was to sit. Including members of the Univ. of Oxford, who attended without enrolment, and those who returned to London and other places for the night, the attendance numbered about 550. The 18 Home Univs. and 36 of the Univs. overseas were represented, the visitors from overseas numbering 100. Subjects discussed: "The Universities and the Balance of Studies," Chairman, the Marquess Curzon of Kedleston, Chancellor of the Univ. of Oxford; "The Universities and the Teaching of Civics, Politics, and Social Economics," and "The Universities and Secondary Education," Chairman, Mr A. J. Balfour, Chancellor of the Univ. of Cambridge and of the Univ. of Edinburgh; "The Universities and Adult Education," Chairman, Viscount Haldane, Chancellor of the University of Bristol; "The Universities and Technological Education," Chairman, the Marquess of Crewe, Chancellor of the Univ. of Sheffield; "The Universities and Training for Commerce, Industry, and Administration," and "The Universities and the Training of School Teachers," Chairman, Dr J C Irvine, Principal, in the place of the late Lord Balfour of Burleigh, Chancellor of the Univ. of St Andrews; "University Finance," Chairman, Sir Robert Stout, Chancellor of the Univ. of New Zealand; "The Universities and Research," Chairman, Lord Robert Cecil, Chancellor of the Univ. of Birmingham; "Interchange of Teachers and Students," Chairman, Lord Kenyon, Pro-Chancellor of the Univ. of Wales.

The THIRD CONGRESS of the Univs. of the Empire was held in Cambridge on July 13 to 16, 1926. Owing to the large number of students in residence in the Colleges the majority of the members received private hospitality. Excluding resident members of the University the attendance numbered about 350. 121 were visitors from overseas. Subjects discussed: "The State and the University," Chairman, the Earl of Balfour; "The Desirability of Establishing in London a School of Advanced Legal Studies," Chairman, the Warden of All Souls, deputy for Viscount Cave; "Co-operation in Research throughout the Empire," Chairman, the Marquess of Londonderry; "Mutual Recognition of Examinations and of Time Spent in Study Elsewhere," Chairman, Sir Matthew Nathan; "The Desirability of making Provision for the Physical Welfare and Training of Students and the Organization of Athletics with a View to securing more General Participation," Chairman, the Vice-Chancellor of Leeds, deputy for the Duke of Devonshire; "The Actual Working of the Ph.D. Scheme," Chairman, Viscount Cecil of Chelwood; "The Desirability of Articulating other Pension Schemes with the Federated Superannuation System of Great Britain and Ireland," Chairman, Viscount Haldane of Cloan. Sectional Meetings on "University Statistics" (Sir Theodore Morison), "Interchange" (Sir Henry A. Miers), "The Classification of Honours Graduates" (Sir Donald MacAlister), "An Imperial Policy in Education" (Sir Frederick D. Lugard).



*Reports of the Proceedings of the Congress, 1912, 1921, 1926, G. Bell & Sons, London, price each £1 : 1s.*

#### DEGREES CONFERRED BY THE UNIVERSITIES OF GREAT BRITAIN AND IRELAND

The older Universities have developed out of the Univs. of the Middle Ages under the compulsion of internal forces, with very little influence from outside. The historical continuity of their evolution and their individual independence account for certain customs and usages in which they differ one from another and from Univs in other lands. Their titles of degrees afford an illustration of this. A Univ. of the Middle Ages was a Guild of learned men. Teaching was the craft of the Guild, whose fellowship carried with it the right to teach. An admitted aspirant for fellowship was termed a bachelor. The members of the Guild recognized his apprenticeship after submitting him to certain tests or, as we should term them, examns. After gaining some experience in teaching, and successfully maintaining a thesis in public disputation, the bachelor attained to his degree. Admitted into the Guild, with its *jus ubique docendi*, he was known indifferently as doctor, master, or professor. Still following this ancient usage, the degree in Scotland is the mastership, M A. In Oxford, Cambridge, and Dublin, where the examn for the bachelorship grew to be the determining test, the mastership, which carries with it all the privileges of membership of the Guild, or Senate, follows without further examn. after an interval of two or three years, but in no case less than six years from matricn. For convenience in standardizing the attainments of their alumni, modern Univs have divided the degree into stages—usually described as the “first” and “higher” degrees—Bachelorship, Mastership, and Doctorate. The conferment of a first degree now marks the satisfactory completion of a three or four years’ Univ course.

At Oxford and Cambridge the Faculty of Arts is not subdivided. B A. is the “first degree,” whether the course leading to it be literary or scientific. In Trinity College, Dublin, a B Sc. course, including no classical language, was introduced in 1926, but it is expected that most Science students will continue to take the B A which remains the primary degree, and must be obtained before proceeding to any other degree except Mus.B, Mus D, B.Sc. and Ph.D. At Cambridge there is no B.Sc. At Oxford the B.Litt. and B.Sc. are awarded for special study and research, like the M.Litt. and M Sc. of Cambridge. At St. Andrews the B Phil. or the B.Litt. may be taken either conjointly with, or after, the M.A.

At all other Univs. a course in Arts leads to the B.A. (in Scotland, M.A.), in Science to the B.Sc., in Commerce to the B Com., and similarly to other titles in other departments of knowledge.

Each of the Faculties of Theology, Law, Medicine, and Music has its own bachelor’s degree.

The signatures of the titles of degrees vary. In the following list the more usual signature is placed first :

*Bachelor of Arts* : B.A.

*Bachelor of Science* : B.Sc.

*Bachelor of Science in its various applications*: B.Sc. (Engineering), B.Eng. Liv., Sheff., B A I. Dub., B Sc (Metallurgy), B.Met. Sheff.; B.Sc. (Mining), B Sc (Mining Engineering) Glas , B.Sc Tech , B.Sc. (Applied Chemistry); B.Sc. (Naval Architecture); B.Sc. (Veterinary Science), B.V.Sc. Liv.; B.Sc.Agr , B Agr. Bris., Belf., Agr.B. Dub., B.Agr.Sc. N.U.I.; B.Sc. (Forestry), Agr.B. (Forestry) Dub.; B Sc. (Horticulture); B.Sc. (Estate Management), B Sc. (Dairying) Reading; B.Sc (Economics); B Sc. (Public Health), B.Hy. Durh. , B.Sc. (Pharmacy) Glas.; B.Sc. (Architecture) Glas.

*Bachelor of Commerce* B Com. or B Comm., B.Com Sc. Belf.

*Bachelor of Architecture*: B.Arch.

*Bachelor of Dental Science*: B D S , B Ch D. Leeds, B Dent.Sc. Dub.

*Bachelor of Education*: Ed.B. (of the Scottish Univs , two years after a first degree).

In Theology the title of the first degree is B D. In Law it is LL B., B.C.L. Ox. Durh., B.L. or (open only to graduates in Arts) LL B. the Scottish Univs In Medicine the signature of the title is M B., B M Ox , in Surgery, Ch B , B Chr Camb., B.Ch. Dub Ox Wales, Belf., B S Durh Lond ; in Obstetrics, B A O. Belf. Dub N.U.I In Music, Mus B , B Mus. Birm Durh. Ox. Wales

*The Primate's Degrees* . Under powers conferred before the Reformation by the Pope, the Primate has the right to confer degrees. In recent years he has, on an average, conferred annually two doctorates.

### *Honours Degrees*

In all Univs of the United Kingdom the first degree in Arts (or Science, if a separate faculty) may be obtained as an ordinary degree, or with Honours.

At Oxford the Honours Schools (B.A.) are in Literæ Humaniores, Mathematics, Natural Science (including Engineering), Jurisprudence, Modern History, Theology, Oriental Studies, English Language and Literature, Modern European Languages, and Philos, Politics and Economics

At Cambridge (Triposes), in Anthropology, Classics, Economics, English, Geography, History, Law (B A and LL B ), Mathematics, Mechanical Science, Modern and Mediæval Languages, Oriental Languages, Moral Science, Natural Science, Theology.

In Scotland: M A Hons. in Celtic, Classics, Econ Science, English (Aberdeen, Geography), History (St. Andrews, History and English), French, German, Italian, Spanish, or Celtic, Mathematics and Natural Philosophy, Mental Philosophy, Modern Languages (St. Andrews, Natural Science, Maths and Physical Science, Philosophy), Sanskrit, Semitic Languages , B Sc. Hons in various branches of Science.

At Dublin (Moderatorships), in Mathematics, Classics, Mental and Moral Philosophy, Experimental Science, Natural Science, History and Political Science, Modern Literature, Legal and Political Science, Engineering Science, Celtic Languages, Oriental Languages.

At London, B.A. Hons. in Classics, Latin, Greek, Mathematics, Anthropology, Archæology, English, French, German, Celtic, Italian, Spanish, Portuguese, Dutch, Scandinavian Langs., Russian, Polish, Czech and Slovak, Serbo-Croat and Slovene, Indo-Aryan, Arabic, Persian, Hebrew and Aramaic (including Syriac), Chinese, Philosophy, Psychology, History, Sociology, Geography; B.Sc. (Special), Mathematics, Astronomy, Physics, Chemistry, Geology, Botany, Zoology, Physiology, Human Anatomy and Morphology, Psychology, Anthropology, Statistics, B.Sc. (General)—three subjects; B.Sc. Hons. (Economics); B.Sc. Hons. (Engineering); B.Sc. Hons. (Mining); B.Sc. Hons. (Metallurgy); B.D. Hons.; LL.B. Hons., M.B., B.S. Hons.; B.D.S. Hons.

In other Univs Honours are obtainable in a variety of subjects.

### *Recognition of Study at other Universities*

**UNDERGRADUATES.** The Univs. of Bristol and Leeds accept attendance for 1 yr. at any Univ. requiring residence as a qualification for a degree. At London any person who has passed the external Intermediate examn. before registering as an Internal student may take the Final Examn. after a 2 yrs.' course and qualify for a degree in the subsequent year. At Oxford members of certain Affiliated Colleges of the United Kingdom, and of certain approved home, colonial, and Indian Univs, who have attended lectures for at least 2 yrs. and attained a prescribed standard, are allowed to count the first term kept by residence as the fourth. At Cambridge a similar privilege is allowed to certain classes of students. At Dublin students who have spent 2 yrs. in Arts studies at certain Univs and have passed the examns. belonging to that period are given credit for the first academic year. At Durham a similar concession is made to students of science. In the Scottish and certain other Univs attendance at lectures and examns. passed in other Univs may be recognized by the Board of Studies, or Senate, after consideration of each case. For Belfast regulations consult section

**GRADUATES** The remission to graduates of any other approved University of 2 yrs. of the 4 yrs. ' course is made by the Univ. of Dublin, of 1 yr. of the 3 yrs. ' course by Bristol, London, and Sheffield, and the N.U.I. Similar remissions are made by Oxford and Cambridge; see their respective sections. At Oxford graduates of a home Univ. and others, who can satisfy the Education Committee that they have received a good general education, are eligible to apply for admission to an approved course of special study and research for the degree of B.Litt. or B.Sc., and, if successful, may supplicate for the degree after completing 2 yrs. of residence. At Cambridge graduates suitably qualified are admitted as Research students and may, after the satisfactory completion of a 2 yrs.' course and the submission of a dissertation, obtain the degree of M.Litt. or M.Sc. At Dublin a graduate of any approved Univ. who possesses a degree the equivalent of Moderatorship may, after 1 yr. of advanced study and research, present himself for examn. for the degree of M.Sc. Certain Univs. which have not adopted ordinances

to that intent are prepared to consider applications from graduates of other Univs. who desire to read for higher degrees for remission of standing or exemption from examinations.

### *Higher Degrees*

*M.A.* At Cambridge a Bachelor of Arts may, without further examn., proceed to the M A at the close of the 6th yr after the end of his first term, at Oxford in the twenty-first term after matriculation; at Dublin 3 yrs after passing the B A examn At Durham and Sheffield graduates in Honours (Durham—1st or 2nd class) of 3 yrs' and 1 yr's standing respectively are admitted to the M A without examn; other graduates must pass the M A examn. or (Sheffield) present a thesis Other Univs exact a further period of study from their own graduates, followed by the presentation of a thesis, or an examn, or both, of 1 yr. at Birmingham, Leeds, Belfast, and the N.U.I., of 1 yr. from graduates with Honours, and 2 yrs from others, at Bristol, Manchester, and Wales, of 2 years from all graduates at Liverpool, London, and Reading Graduates of approved Univs. can obtain the Mastership after 1 yr of advanced study and research at Birm and the N U I; after 2 yrs at Bris, Leeds, Liv, Lond, Manc, Reading (thesis required), Sheff, Wales At London a thesis is required from Internal students in all branches, except Mathematics, in which it is optional, and an examn At Leeds, Liverpool, and Manchester persons who have not graduated can obtain the M A degree after a course of advanced study and research extending, usually, over 3 years.

*M.Sc.* This degree is not conferred by Oxford or any of the Scottish Univs. At other Univs. it can be obtained by graduates of the Univ. under conditions similar to those for the M A. At Durham, by graduates, B Sc, of 2 yrs' (Sheffield 1 yr's) standing who took first or second class Honours, without further test At Leeds, by graduates, B.Sc., with Honours, of 1 yr's standing (other Bachelors of any Faculty of 2 yrs.' standing), after research (thesis required). At Liverpool, by graduates, B Sc, with Honours, after 1 yr's higher study (thesis required) At London, by Internal students of 1 yr.'s or 2 yrs', by External students of 1 yr's standing from B Sc with thesis (optional in Mathematics) and examn At Manchester, by graduates, B Sc, of 1 yr's standing after thesis and examn (at the discretion of the Faculty) At Cambridge the degree is conferred upon Research students. In other Univs which confer the degree, graduates of approved Univs can obtain the M Sc on terms similar to those for the M A., at Durh or Reading, after 2 yrs' advanced study in the Univ.

Other titles of Mastership conferred by various Univs—M Litt, M Com, LL.M, M Mus, M.A.O. (Midwifery), M Ch, Ch M, M Ch Orth. (Orthopædic Surgery), M.D.S. (Dental Surgery), M V Sc, M H. (Hygiene), M.Eng., M.Sc.Tech, M.Met., M Arch., M.Ed.

*Ph.D.* All the Univs. of the United Kingdom now confer the degree of Philosophiæ Doctor Candidates entering upon a course of advanced study and research for this degree must be at least 21 (Oxford,

Camb, Brist., L'pool., Durh., Wales, Reading, St. Andrews, Dub.—no minimum age), must ordinarily be graduates either of the Univ or of some other approved Univ, must have pursued their studies at a Univ. or Univs for a period of at least 3 yrs (London—2, Reading and Dublin—not specified), must produce evidence of fitness for the proposed course of study and research. The course for the degree extends ordinarily over at least 2 years (Cambridge, Reading, Aberd. Glas., St. And. and N U I—3 years). At its termination the student must submit a dissertation and may be required to qualify also by examn. The degree is granted in any faculty in which the Univ. is prepared to receive advanced students.

A candidate for the degree of Ph.D., as an External student of the Univ. of London, must have graduated in the Faculty of Theology Arts, Music, Science, Engineering, or Economics in this University not less than 2 academic yrs. previously.

*Litt.D.* and *Sc D* The Doctorate in Letters or in Science is conferred upon Masters of Arts or Science (Wales and Dublin, Bachelor or Masters) distinguished by their contributions to the advancement of learning or science. The claim to the degree must be based either upon a special thesis, as at London, or upon published works. In certain Univs the Faculty may require the applicant to appear for examn. An applicant for the Doctorate must be of 3 yrs' standing from graduation at Dublin, Belf (for D Sc), N U I (for D.Sc. Pub. Health), 4 yrs' at Manchester, London (for D Sc and External D Lit); 5 yrs' at Birmingham, Sheffield, N.U I (for D Litt, D Litt Celt., D Sc), and the Scottish Univs, 6 yrs' at Belfast (for D Lit), Durham (for D Sc), Leeds, Liverpool (5 yrs from M A or, for D Sc., from M.Sc. or Ph D), Bristol, Reading (4 yrs from M A or M Sc, 3 yrs from Ph D), 5 yrs from M A, LL M, M Chr, M Litt, M Sc. or Ph D, or 7 yrs. from M B at Cambridge, 7 yrs' at Oxford, London (for Internal D Lit), 10 yrs', Univ. of Wales (3 yrs from M.A, 2 yrs from Ph.D), Durham (for Litt.D)

Graduates of other Univs. who have been admitted to the degree of M A or M Sc (Oxford M A, B Sc, or B Litt.; Dub B A) can proceed to the Litt D. or Sc D. under the prescribed regulations. In Scotland Honours graduates of approved Univs of 5 yrs.' standing who have spent the equivalent (4 terms) of two winter sessions in research at a Scottish Univ, have submitted a satisfactory thesis or published work, and have, if required, passed an examn., are admitted to the Doctorate. At Bristol the degree of D Sc. can be obtained without previous admission to the M Sc. At London a candidate for the Doctorate may be specially exempted from the examn. for M.A or M Sc., at Manchester, from the examn. for M Sc.

*D.Hy* (Durh) 2 yrs from B Hy.; examn, thesis.

### *Degrees in Divinity*

*B D* is conferred after examn in the Scottish Univs and the Univs of Durham, London, Manchester, and Wales; after examn. and submission of a thesis at Dublin, after examn and the submission of a

dissertation and published works at Cambridge (examn. may be omitted) and at Oxford. At London the course must extend over 3 yrs., subsequent to matriculation. In Scotland a candidate must be M.A. of a Scottish Univ. who has taken a theological course in a specially recognized institution, or a graduate of an approved Univ. who has taken a complete theological course of at least 2 yrs. in the Univ. conferring the degree; at Dublin, a B A. of 3 yrs 'standing; at Durham, he must be a man who is either a graduate of 2 yrs.' standing or the holder of the Diploma in Theology; in Wales, a graduate who, subsequent to graduation, has studied for 3 yrs. at one of the Associated Theol Colls of the Univ, at Cambridge, a candidate must be M A. or LL.M, and cannot be admitted to the degree until he is seven years from the Master's degree; at Oxford, a candidate must be a M A or must be 26 yrs. of age, have followed a course of study in Christian Theology extending over 6 terms, and resided at the Univ. during 6 terms

*D.D.* In Scotland the degree is conferred *honoris causa tantum*. At London it is conferred upon B D.'s who took Honours in at least one subject, on presentation of a dissertation, followed by an examn, if the examiners so desire. At other Univs it is conferred in consideration of published works, or a dissertation (and, at Oxford, a *viva voce* examn, if the judges so desire). The requisite standing is, at Cambridge and London, 5 yrs from B D. (or, for a Cambridge B.D., 12 yrs. from M.A.); Dublin, 8 yrs from B A, Durham, 10 yrs. from B.A.; Manchester, 4 yrs. from B D (or 6 yrs. for B D's of other Univs. who have studied for 2 yrs. at Manchester); Oxford, 14 yrs. from matricn, or, if he was admitted to the degree of B D as a graduate of another Univ., the candidate must have attained the age of 33; Wales, 6 yrs. from B D.

### *Degrees in Medicine and Surgery*

*M.B., Ch B.* The regulations for these degrees are practically uniform. Preliminary examinations satisfying the requirements of the General Medical Council (see Appendix XI). Registration as a medical student by the G.M.C is recommended. Satisfactory attendance during at least 5 yrs at courses of study and hospital practice. Four examns. (in some Univs. grouped as three or two). All examns. must be passed at the Univ granting the degree, with the exception of the first, in Chemistry, Physics, and Biology (and, at St Andrews, the second in Anatomy and Physiology), from which a candidate may be exempted if he has passed an equivalent examn at the Univ., or elsewhere (Scottish Univs, Birmingham, Bristol, Dublin for S. African students only, Durham, London, Oxford Senior Students, Sheffield). Study in the Univ. for at least 3 yrs, except for the degrees as an External student of the Univ of London, who must study for 1 yr in a Univ. of the United Kingdom, or for 2 yrs, Scottish Univs., Leeds, Liverpool, Manchester; for 1 yr College of Medicine, Newcastle-on-Tyne (Durham) The Univs of Oxford and Cambridge exact 3 yrs' residence, but allow students to do any or all of their

medical work at other recognized medical schools. At Oxford, Dublin Univ. of Wales, candidates must graduate B.A. (or B.Sc., Wales before admission to a medical degree.

*M.D.* Candidates must be M.B., Ch.B. of, usually, 2 yrs.' standing (Oxford, 10 yrs from matriculation; Cambridge, M.B. of 3 yrs., or M.A. of 4 yrs.' standing; Leeds, Sheff., M.B., 1 yr.'s standing; Belf M.B. 3 yrs., B.A. or B.Sc. with M.B. 2 yrs., Dublin, of M.A. standing. A dissertation is compulsory in almost all Univs., followed by an examn., unless the examiners pronounce the dissertation to be of such merit as to render further examn. unnecessary.

*Ch.M.* Regulations similar to those for M.D.

*D.Ch.* (Durh.). Candidate must have devoted, subsequently to having obtained a registrable qualification, 3 yrs. (including one at least in the Univ. and 6 months at least abroad) to the study of Surgery and ancillary subjects.

*Degrees in Dentistry, in Pharmacy* (London, Manchester, Glasgow) *and in Veterinary Science are obtainable under somewhat similar conditions.*

#### *Degrees in Law*

*LL.B.* (or *B.C.L.*), obtainable with Honours or as an ordinary degree. In the Scottish Univs. candidates must have graduated M.A.; at Dublin, Durham (*B.C.L.* and *LL.B.*), National University of Ireland, B.A. For *B.C.L.* at Durham candidates must be of 2 yrs. standing from B.A., for *LL.B.* the course is 3 yrs. for a candidate of Intermediate grade in Arts or Science. In Wales the course extends over 3 yrs. for a pass degree and 4 yrs. for an Honours degree. At Belfast graduates of this or of some other Univ. are eligible for the degree after a 2 yrs.' course in Law, at Oxford, after a 2 yrs.' course if they obtain Honours in the *B.C.L.* examination. At Sheffield a graduate of a Univ. of the United Kingdom who has attended for 1 yr. the intermediate course and for 1 yr. the Final course in Law and for 2 yrs. studied in a recognized institution, may be a candidate for the degree. In the majority of Univs. there are two examns., Intermediate and Final. For *B.L.* v. Scottish Univs.

*LL.M.* Cambridge, Leeds, Liverpool, London, Manchester, Sheffield, Wales. By standing for graduates in Law with Honours, except at Leeds and Manc., where a dissertation must be presented. For others after examn. or (Camb.) dissertation, or both (Wales). Liverpool requires 2 yrs. of approved study.

*LL.D.* (or *D.C.L.*). By the Scottish Univs. the Doctorate is awarded only *honoris causa tantum*. Other Univs., unless the degree be awarded *honoris causa*, require the submission of a thesis, dissertation, or published works, and may require attendance at an examn.; in Dublin a candidate may elect to undergo examn. in lieu of offering a thesis, etc. The requisite standing for the Doctorate is, at London, 2 yrs. from Honours *LL.B.*; Belf., 3 yrs. from *LL.B.* if thesis; Dublin, 3 yrs. from B.A. of Dub., Ox., or Camb.; Manchester, 4 yrs. from *LL.B.*; Nationa

Univ. of Ireland and Sheffield, 5 yrs. from LL.B. ; Oxford (D.C.L.), 5 yrs. from B.C.L. ; Cambridge, 8 yrs. from first degree ; Liverpool, 5 yrs. from LL.M. , Leeds, 6 yrs from LL.B. ; Durham (D.C.L.) and Wales, 10 yrs. from graduation or 3 yrs. from LL.M.

### *Degrees in Music*

The degrees of Mus B. (or B Mus) and Mus.D. (or D.Mus.) are conferred by the Univs. of Cambridge, Dublin, Durham, Edinburgh, London, Manchester, N.U.I., Oxford, Wales ; B Mus. and M.Mus. Birmingham ; Mus.M. Cambridge and M.Mus. Wales.

*Mus.B.* At Birmingham, Cambridge, Dublin, Edinburgh, London, Manc., N U I., and Wales, students must pass the same Entrance examn. (Matriculation, Previous, or Preliminary) as students in Arts, with, at Birmingham, where the degree is an Honours degree, an examn. in theory and in execution. At Durham they are admitted on a *testamur* as Students of Music. At Oxford they must pass Responsions. In Wales a student must attend an intermediate class in Arts or Science in addition to the Music course. Residence is not obligatory at Dublin or Durham. At Edinburgh students must study Music in the Univ for one whole winter session. As a rule, the course extends over 3 yrs with two, or three, examns., including an exercise for the Final examn.

*Mus M.* Conferred 3 yrs (Wales—2 yrs) after the Mus B for original work and dissertation (Birmingham), after examn and exercise (Cambridge, Wales)

*Mus D.* Conferred at Cambridge on graduates not less than 30 yrs of age, in recognition of distinction as Composer ; in Wales (D Mus) on B Mus of 10 yrs' or M Mus of 3 yrs' standing on consideration of original compositions, at Edinburgh on Mus B's of 3 yrs' standing, after examn. as Composer, Executant, or Theorist or Historian (Dissertation), and also *honoris causa tantum*, at Dublin on Mus B's after further examn or practical test, at London on Mus B's of 2 yrs' standing, Oxford 3 yrs', Manchester 4 yrs', Durham and N.U.I. 5 yrs.', after exercise and examn



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Pinkard, F. W., M.Sc. Wales, A.I.C.  
Glover, T. J., Ph.D., N.U.I., A.I.C.  
Drew, H. D. K., Ph.D., D.Sc.  
Lond., A.I.C.

Hirst, E. L., M.A., B.Sc., Ph.D.  
Hickinbottom, W. J., M.Sc., Ph.D.,  
A.I.C.

### *Classics*

Thomson, J. Oliver, O.B.E., M.A.  
Aberd., B.A. Camb

Prof (Latin).

Dodds, E. R., B.A. Ox., M.A.

Prof (Greek)

Hirst, Margaret E., M.A. Camb.  
Lectr.

Barratt, A. J., M.A. Ox.  
Lectr. (Latin)

Austin, R. P., B.A. Lectr

### *Commerce, v. also Acc, Fin*

Rees, J. F., M.A. Ox., M.Com. Prof  
Allen, G. C., M.Com., Ph.D.

Lectr. in Indust. Organization

### *Commercial Law*

Tillyard, F., M.A. Ox., M.Com.,  
Barr.-at-Law Prof.

### *Dental Science, v. infra*

### *Education*

Valentine, C. W., M.A., M.A.  
Camb., D.Phil. St. And.  
(supervisor of Students in  
*Psychology* in Faculty of  
Science) Prof

### *Heads of Training Depts. :*

Braddock, A. P., M.A., B.Sc.  
Lond.

Hammond, Marjorie, B.A. Dub.

Lectrs. :

Chapman, A. E., M.A. Camb.

Scott, Elizabeth, B.A. Belf.

Austin, Frances M., M.Sc. (in  
Secondary Dept.)

Buchanan, Freda M., M.A. Edin.

Jebb, Eglantyne M., M.A. Ox.

Simpson, Lilian E., B.A.

Cull, E. C., B.Sc. Lond.

McGregor, Janet G., M.A., B.Ed.,  
Ph.D. Edin. (*History* and  
Methods of teaching H.).

Stewart, Dorothy W., Mus.Bac.  
Edin. (also Lectr. in *Music*)

Haddelsey, Muriel E., Bergman  
Osterberg Physical Training  
College

James, B. C. L., M.A. Lond.

Asst. Lectrs

Anderson, Agnes L., Ph.D., M.A.  
Edin

Butlin, Helen

Dickinson, Olive W., M.Sc. Shef-  
field

Fletcher, Helen.

Fisk, Ethel, B.A. (Camb.).

Medical Officers

Jordan, W. R., M.D.

Braid, Frances, M.D.

### *Engineering, Civil*

Batho, C., D.Sc. McGill, M.Sc.,  
B.Eng. Liv., A.M.I.C.E.

Beale Prof.

Panton, R. C., M.Sc., M.A., B.A.I.  
Dub., A.M.I.C.E. Lectr.

Veal, T. H. P., B.Sc., A.M.I.C.E.  
Lectr.

Coultas, H. W., B.Sc. Leeds,  
M.Sc., A.M.I.Mech.E. Lectr.

Haywood, W., F.R.I.B.A. (Town  
Planning) Lectr.

### *Engineering, Electrical*

Cramp, W., D.Sc. Manc., M.Sc.  
Tech., M.I.E.E. Prof.

Kipps, E. J., M.Sc., M.I.E.E.  
Lectr.

Harvey, G. M., M.Sc., B.Eng. Liv.,  
A.M.I.E.E.

Lectr. in Mining E.E.

Sims, L. G. A., M.Sc. Lectr.

Havekin, T., B.Sc. Manc.

Asst. Lectr.

### *Engineering, Mechanical*

Burstall, F. W., M.Sc., M.A. Camb.,  
M.I.Mech.E. Chance Prof.

Porter, R. C., M.Sc. Vict.,  
A.M.I.C.E. Lectr.

Boden, F. H., B.Sc. (Machine Design) Lectr.  
 Ellis, S. J., B.Sc., A.M.I.C.E. ,,  
 Sandifer, D. A. N., B.Sc. Eng. (Machine Design) Asst. Lectr.

*English*

..... Prof.  
 Maitland-Smith, Isabella J, M.A. Aberd., B.A. Ox. Lectr.  
 Hughes, A. D. M., M.A. Ox Lectr.  
 Milner-Barry, Alda, M.A. Camb. Lectr.  
 Jebb, Eglantyne M., M.A. Ox. Lectr.  
 Buchanan, Freda M., M.A. Edin Lectr.  
 Waterhouse, J. F., B.A. Ox. Asst Lectr.  
 Dodds, Mrs A. E. Asst Lectr.

*Finance*

Smith, J. G., M.A. Dub., M.Com. Birm. and Dub Mitsui Prof.  
 Marquand, H. A., B.A. (Wales) Lectr in Economics

*French*

Ritchie, R. L. Graeme, M.A., D.Litt. Aberd., D. de l'U. Paris, O.A. Prof.  
 Milne, Jane J., M.A. Edin., D.Litt. Lectr.  
 Wilson, Claudine I., M.A. Aberd., Ph.D. Lond. Lectr.  
 Bisson, L. A., M.A. Ox. Asst. Lectr.  
 Pinet, L., L. ès Lettres (Lyons) Asst in Colloquial French

*Geography*, v. also Educn.

Kinvig, R. H., M.A. Liv. Reader.  
 Fisk, Ethel, B.A. Camb. Asst. Lectr.  
 Pelham, R. A., B.A. Wales Asst. Lectr.

*Geology and Mineralogy*

Boulton, W. S., D.Sc. Wales, M.Sc., A.R.C.S., M.I.Min.E., F.G.S. Prof.

Raw, F., D.Sc. Lond., F.G.S. Lectr.  
 Wills, L. J., Ph.D., M.A. Camb F.G.S. Lectr.

*German*

Sandbach, F. E., M.A. Camb., Ph.D. Strass. Prof.  
 Strachan, L. R. M., M.A. Ox. Lectr.  
 Liddell, M. F., Ph.D., M.A. Edin. Lectr.  
*History*, v. also Arch., Educn.  
 Beazley, C. R., D.Litt. Ox., M.A. Prof.

## Lectrs. :

Sutchfle, Dorothy, M.A. Manc and Leeds  
 Adams, H. P., M.A. Camb. (Ancient H).  
 MacGregor, Janet G., M.A., B.Ed., Ph.D. Edin  
 James, V. C. L., M.A. Lond

*International History*

Stephens, J. S., M.A. Ox  
 Merttens Lectr.

*Italian*

[Serena Prof.  
 de Castelveccchio, Linetta P., M.A.

*Law*

Smalley-Baker, C. E., M.A. Ox., LL.B. (Harvard), Barr.-at-Law Barber Prof.  
 Potter, H., LL.B. Lond. Reader.  
 Coley, A. H., LL.D.  
 Hon Lectr in Legal Ethics.  
 Camm, W. C. Lectr.  
 Dickson, A. W., LL.B., LL.B. Lond Lectr.  
 Norris, C. S., B.A. Ox.  
 Lectr. in Trust Accounts.

*Mathematics*

Watson, G. N., Sc.D. Camb., D.Sc. Lond., F.R.S., F.R.A.S. Mason Prof.

## Lectrs. :

Preece, C. T., M.A. Camb., F.R.A.S.  
 Colomb, Ruby, M.A. Lond., F.R.A.S.

Calderwood, Nora I, M A, B.Sc.

Edin

Lumsden, T A, M A, B Sc. Edin,

F.R.A.S

*Medicine, v infra*

*Metallurgy* [Feeney Prof.

Hanson, D, M.Sc., D.Sc. Liv.

Harris, H., M.Sc., F.C.S. Lectr.

Turner, T. H., M.Sc. Lectr

Allen, N., M Met Asst. Lectr.

*Mining, Coal, and Metal*

Moss, K. N., O.B.E., M.Sc.,

A.M.I.C.E., M.I.Min.E.,

F.G.S. Prof

Glossop, R, B.Sc. Lond., A.R.S.M

Lectr. in Metal M

Garrett, J. G., B.Sc., M.I.Min.E

Lectr. in Surveying

Hancock, W, Ph.D., M.Sc., F.G.S

Lectr. in Mine Rescue

Needham, L. W., M.Sc

Asst. Lectr. in Coal Treatment

*Mining Research Laboratory*

Haldane, J. S., LL.D., M.D.,

F.R.S., Hon Prof and Dir

of Research Lab

Graham, J. I., M.A. Camb, M.Sc

Lond., A.R.C.Sc.I.

Asst. Dir. of Research

*Music, v. also Educn*

Bantock, G, M A, D Mus Edin

R Peyton Prof

Stewart, Dorothy W, Mus. Bac

Edin Lectr

*Oil Engineering and Refining*

Nash, A. W., M.Sc., F.C.S.,

M.I.Mech.E., M.I.P.T. Prof

Timmings, L. P., B.Sc., M.I.P.T.,

F.G.S. Lectr.

Bowen, A. R., M.Sc., Ph.D., A.I.C.

Lectr.

Stanley, H. M., M.Sc.

Research Asst

*Philosophy, Mental and Moral*

Russell, L. J., M.A., B.Sc., D.Phil.

Glas. Prof

Gibson, A. B., M.A. Ox. Lectr.

*Physics*

Smith, S. W. J., M.Sc., M.A

Camb., D.Sc. Lond., A.R.C.S.,

F.R.S. Poynting Prof

Lectrs.:

Shakespear, G. A., D.Sc., M.A.

Camb, B.A., B.Sc. Lond. (Spl

Lectr. in Expl. P.)

Barlow, G., D.Sc. Birm., Wales,

and Lond., F.Inst.P.

Keene, H. B., D.Sc., F.Inst.P.

ibbs, T. L., Ph.D., M.Sc

Young, J., B.Sc. Lond., A.R.C.S.

Dee, A. A., B.Sc. Lond., D.I.C.,

A.R.C.S.

Johnson, M. C., M.A. Camb., M.Sc.

*Physiology*

Daly, I. de Burgh, M.A., M.D.,

B.Ch. Prof

Walker, Hilda, M.B., Ch.B

Special Lectr.

Thorpe, W. V., M.A., Ph.D.

Lectr. in Bio-Chemistry

Pfister, Hilda I., B.A., M.B., Ch.B.

Edin Lectr

Peat, S., Ph.D., B.Sc

Asst. Lectr. in Bio-Chemistry.

*Psychology, v. Educn.*

*Russian* [Independent Lectr.

Konovaloff, S., B.Litt.

*Spanish*

Conroy, R., M.A. N.U.I. Lectr.

*Zoology and Comp Anatomy*

Fox, H. Munro, M.Sc., M.A. Camb

Mason Prof.

Newth, H. G., M.Sc., A.R.C.S.,

D.I.C., F.Z.S. Lectr.

Gunn, D. L., B.Sc. Asst. Lectr.

Stephenson, E. Mary, M.Sc. Lond

Asst. Lectr.

\* *Medicine* (for subjects of first 2

yrs —Anat., etc., v. *supra*).

*Bacteriology, v. Path.*

*Ear, Nose and Throat, Diseases of*

Woodman, E. M., M.S., F.R.C.S.

Lectr.

\* Exclusive of 40 clinical lecturers and tutors on the staffs of hospitals.

*Forensic M. & Toxicology*

Morrison, J. T. J., M.Sc., M.A.,  
M B., B Chr. Camb., F.R.C.S.  
Prof.

Walker, C., M.D., B.Sc. Asst.

*Hygiene and Public Health, v.  
also Chem.*

Robertson, Sir John, C.M.G.,  
O B E., M.D., LL.D. Edin.,  
B Sc Prof

Lewis, C. J., M.D., D.Sc.  
Assoc. Prof.

Auden, G. A., M.D., M.A., Ph.D.,  
D.P.H. Camb., F.R.C.P.  
(Hygiene) Lectr

*Infant Hygiene and Dis of  
Children*

Parsons, L. G., M.D. Lond.,  
F.R.C.P. (also Clin Lectr)  
Prof

*Materia Medica* [Lectr.

Kneale, J. C., M.B., Ch.B., M.P.S.  
Greenwood, F. R., M.D., B.S.  
Lond. Demr

*Medicine*

Wynn, W. H., M.D., M.Sc. Lond.,  
F.R.C.P. Prof.

Ball, L., M.D., M.R.C.P. Prof  
Hardy, T. L., M.D., M.A.,  
M.R.C.P.

Lectr for Dental Students

*Mental Diseases*

Hughes, P. T., M.B., Ch.M., Edin.,  
D.P.H. Lond Lectr.

Joint Board of Research (Univ.  
and City)

Pickworth, A. F., B.Sc., M.B.,  
B.S., A.I.C. Director

*Midwifery and Dis. of Women*

Whitehouse, H. Beckwith, M.S.  
Lond., Ch.M., F.R.C.S. Prof.

Graham, Lewis, M.S. Lond.,  
F.R.C.S. Lectr.

Shufflebotham, Hilda N., B.Sc.,  
M.B., Ch.B., F.R.C.S. Asst.

*Ophthalmology*

Evans, J. J., M.D., F.R.C.S. Lectr.

*Pathology and Bacteriology*

Wilson, G. H., M.D. Glas.  
Prof. of Path.

Lamb, F. W. M., M.D., Ch.B.  
Lectr. in P.

Lewis, C. J., M.D., D.Sc. Edin.,  
F.R.C.P.E.

Lectr. in Advanced B.

Shrewsbury, J. F. D., M.B., Ch.B.,  
D.P.H. Lectr. in B.

Donovan, Hugh, M.B., Ch.B.,  
F.R.C.S. Asst.

Brenner, O., M.D., M.R.C.P.  
Asst.

Stammers, A. F., L.D.S.  
Demr. for Dental Students.

*Pharmacology, v. Therapeutics**Radiology*

Black, Harold, M.D. Lectr.

*Surgery* [Prof.

Gamgee, L. P., Ch.M., F.R.C.S.

Billington, W., M.S. Lond.,  
Ch.M., F.R.C.S. Prof.

Lucas, A., F.R.C.S.  
(S. for Dental Students)

Lectr.

Goodwin, B. G., F.R.C.S. Asst.

*Surgery, Operative*

Barnes, F., M.S., F.R.C.S. Lectr.

*Surgery, Orthopædic* [Lectr.

Dunn, N., M.A., M.B., Ch.B.

*Therapeutics, Pharmacology and*

Stanley, D., M.D. Birm. and  
Edin., F.R.C.P. Prof.

Smellie, J. M., M.D. Edin.,  
M.R.C.P. Lectr.

*Dental Science, v. also Med.,  
Path., Surg.*

Matthews, G. F. C., B.D.S., L.D.S.  
Lectr. (Orthod.).

Humphreys, H. F., M.B., Ch.B.,  
M.D.S., L.D.S.

Lectr. (D. Anat. and Physiol.).

Wellings, A. W., M.D.S., L.D.S.  
Lectr. (D. Histol., etc.).

Knott, W. M., L.D.S.

Lectr. (D. Prosthetics).

Madin, W. T., B.D.S., L.D.S.

Lectr. (D. Surgery, etc.).

Broderick, R. A., D.S.O., Ch.B.,

M.B., M.D.S., L.D.S.

Lectr. (D. Bacteriology).

Parrott, A. H., O.B.E., M.D.S.,

L.D.S.

Lectr. (D. Mat. Med. and

Therap.)

10 Clinical lecturers and tutors on the staff of the Dental Hospital.

### Huxley Lecturer

1928-29—Sir Humphry D. Rolleston, M.D., LL.D., D.Sc., on "The Nature of Disease."

### University Extension

Tutors: Vacant (Jt.-Secy.) and 12 others

## AFFILIATED INSTITUTIONS

**MIDLAND INSTITUTE.** Students are admitted to Intermediate Arts examn. as Internal Students. *Principal*—A. Hayes, M.A. Ox, and Birm.

**SALTLEY TRAINING COLLEGE.** Students taking the 4-yr course are admitted to the Intermediate Arts examn. as Internal students. *Principal*—Rev. F. T. Cooper, M.A. Camb.

**HANDSWORTH AND LICHFIELD THEOLOGICAL COLLEGES.** Students can take the 2nd and 3rd yrs. for the B.A. in their own Colls. *Principals*—Handsworth: W. F. Lofthouse, D.D., Lichfield: L. A. Phillips, M.A. Ox.

## GENERAL INFORMATION

The University, formerly the Mason College founded by Sir Josiah Mason in 1880, was incorporated by Royal Charter in 1900. The Charter prescribes instruction in all branches of a liberal education, and such instruction especially as may be of service in the manufactures, commerce, and industrial pursuits of the Midlands. The Faculties of Arts, Medicine, and Law are still housed in the buildings of Mason College in the centre of the city. Other buildings have been erected and equipped at a cost of £850,000 at Bournbrook on a site of 50 acres.

**FACULTIES** · Science, Arts, Medicine, Commerce, Law. **Deans** · Prof. Boulton, Prof. Brash (Anatomy), Prof. Smith, Prof. Smalley-Baker.

*Departments* of Education (training for teaching in primary, secondary, and continuation schools); Malting and Brewing and Bio-Chemistry of Fermentation; Social Study; Industrial Certificates. Connected with the Medical Faculty is a *School of Dentistry*.

**LIBRARY**, about 150,000 vols. *Special Collections*: Sargent, rich in French economic literature of about 1830-1860; Collings, some 350 books on agric. and land problems; Bunce, rich in nineteenth-century biography; Corbett, county, especially Shropshire, history. **MUSEUMS**, Anat., Dent., Geol., Zool.

**LABORATORIES**: Chemical (special organic, phys., electro-chem., analytical, and public health depts.); Engin., Metallurgy, and Mining (exceptionally well equipped and including coal-mining research lab., expl. coal-mine and oil-boring plant, petroleum engineering being a speciality); Brewing; Power-station supplying whole Univ. with lighting, heat, and power; Cancer Research, Research in Mental Disease. A small **OBSERVATORY** is attached to the dept. of Physics. **HOSPITALS** (600 beds) available for clinics—General, Queen's, and many special.

**MATRICULATION.** See Appendix XX.

**DEGREES.** B.A., B.Mus., LL.B., M.A., M.Mus., D.Phil., D.Litt.; B.Sc. (in Pure Science, in Engineering—Civ., Elec., Hydro-Elec., Mech., or Oil, in Metallurgy, or in Mining—Coal and Metal), M.Sc., D.Sc.; M.B., Ch.B., B.Sc. (Pub. Health), B.D.S., M.D., Ch.M., M.D.S.; B.Com., M.Com.; Ph.D. (in any Faculty); LL.D. (Honorary).

No degree can be obtained without attendance upon prescribed courses in the Univ. extending over at least 3 academic yrs. after matricn. except in the case of graduates of other Univs., who are, under certain conditions, admitted to the 1-yr. courses for the M.A. and M.Sc. and to 2 yrs.' courses for the B.Sc. (courses in technical subjects), B.Com. (one year may in exceptional cases be taken elsewhere), Ph.D. (v. p. 18), M.D., or Ch.M.

B.A. Honours schools in Classics, French, German, Engl. Lit., Hist., Social and Polit. Sc., Philos., Maths., Music, Geography, Italian, Spanish, Economics.

In the B.Com. courses one-third of the student's time may, if he chooses, be devoted to work in Applied Science.

The B.Sc. with Honours requires 3 yrs. after the Intermediate standard has been reached. The B.Sc. courses in Engineering and Oil Mining cover 4 yrs. Those in Mining involve practical work underground. Graduates of Oxford who have obtained the Ox. Dipl. in Scientific Engin. and Mining are eligible, subject to certain provisos, for the B.Sc. in Engin., Mining, or Metall. after 2 yrs.' study in Birmingham.

Special course in Spanish for students of applied science; 2 lecture hours a week for 2 sessions.

Med. students may spend their final yr. at any school or schools of Med. recognized by the Univ., and the Senate may recognize examns. passed therein as exempting from the 1st Med. examn. They may obtain the B.Sc. as well as their Med. degree by devoting 6 yrs. after the pre-medical year instead of 5 to study in the Univ.

Candidates for the B.Mus. (Honours) must have passed the matricn. or an equivalent examn. and an examn. in the Rudiments of Music, and power of performance on some musical instrument.

The M.A., M.Com., and M.Sc. involve at least 1 yr. of study after completing the course for the bachelorship.

The M.A. may be taken in Educn. as well as in the ordinary Arts subjects.

The D.Phil. or D.Litt., M.Mus., or D.Sc. may be taken 3 yrs. after the M.A., B.Mus., or M.Sc.

*Advanced Standing.* Candidates who pass at entrance certain examns. ordinarily taken after the first year of a degree course may take the final examn. for the B.A. at the end of their second year and the M.A. at the end of their third year. Certain examns. of other approved Univs. and Examining Bodies are accepted as qualifying for such advanced standing.

*Diplomas.* Art Instructor's (2 yrs.' course), for students of the Municipal School of Art; *Brewing* (3 yrs.' course), Brewing Special for graduates (1 yr.); Graduates' *Commerce* (1 yr. course), open to graduates of any Univ. who have passed an adequate test in accounting; *Mining*; *Social Study* (2 yrs.' or, Higher Dipl., 3 yrs.' course preparatory for public administration, charity organization, factory welfare, trade union official work, etc.); Diploma in Education (1 yr. course), for graduates of a Univ. of the U.K. or others equally qualified; *Dental Surgery* (4 yrs. subsequent to passing a recognized Pre-Dental examn.); *Public Health* (1 yr. course), not less than 2 yrs. after obtaining registrable qualification in Med., Surg., and Midw.

A Joint Coal-mining Diploma of the Univs. of Oxford and Birmingham may be taken by Oxford graduates in Engineering who, after 4 months' practical

experience in coal-mining, pursue courses covering one session in this Univ. Tuition fee, £60. A similar Joint Diploma of Camb. and Birm. is given.

*Mining* students from *British Dominions*, not under 25 years of age, who have been regularly employed in mines for not less than 4 yrs, may take a special 2-yrs.' course (combined with practical experience) qualifying for the Univ.'s Mining Diploma.

*Certificates* for Brewers and Maltsters (2 yrs.).

An *Industrial Certificate* class has been instituted under the control of a joint board of Univ. and Trade Union representatives. This class provides two full days' instruction to members of Trade Unions, nominated by their Unions, in English Literature, Modern History, Economics, and Elementary Science. The class is held in all three terms of the Univ. session, and at the end an Industrial certificate is awarded after examn. The class is a new departure, as it is not based on the principle of evening work but on full-time day work, and the instruction is provided by members of the Univ. Staff. Evening classes are not provided by the Univ., this work being left to the Birm. and Midland Inst., Munic Tech. Sch., etc.

**RESEARCH** A joint standing committee of lay members of council and academic members of senate co-ordinates research work in all faculties, formulates policies of research, obtains funds, and co-operates with Gov agencies and external bodies. Trust Funds (Spencer and Holcroft) amount to £10,000. There are special committees for research in Mental Diseases and in Cancer.

**FEES** Matricn, £2. Tuition for B.A., £75; B.Sc., £75-£96; Engin., £221; Mining, £146-£198, Metall., £129-£175, Med., including Hospl fees, £170; LL.B., £29. Examns, Interim and Final, for first degree, £10, except in Med., £20, and Engin., £12 10s. Laboratory research fees average about £20.

**SCHOLARSHIPS** for advanced students. Walter Myers (Travelling), £150 for 1 yr., renewable, for research in Path. or Clin. Med., open to graduates in Med. and Surg. of Birm. (who have also obtained the B.Sc.), London, Ox., or Camb.; 10 Scientific Research, tenable for 1 yr. (6 of £96 and 4 of £50 each), are offered annually.

**RESIDENCE.** For women there is a Hall of Residence—Univ. House, Edgbaston Park Rd. (Warden), with grounds of 2½ acres; for 96 men students—Chancellor's Hall (Warden), Augustus Road, Edgbaston, for 30 men students, Queen's College (Warden), Somerset Road, Edgbaston. The cost of board and lodging is from £2 : 2s. upwards a week.

An **APPOINTMENTS BOARD** (Secy.—The Registrar) has been established.

**GUILD OF GRADUATES.** Six representatives serve on the Univ. Court of Governors, one of whom is also a member of the Univ. Council. A *Register of Graduates* and a *News Letter* are circulated annually to all members.

**UNIVERSITY EXTENSION** work includes Lectures and Tutorial Classes in the city and neighbouring towns.

**PUBLICATIONS.** *Calendar* (Oct.), 2s; Sectional Prospectuses (April); *Careers in Science*; *Report of University Research Committee*, including list of research reports published during the session (Jan.); students' magazine, the *University Gazette*.

## THE YEAR 1927-28

**BENEFACTIONS AND GIFTS** (above £500), 1927-28. Estate of F. C. Clayton (formerly Treasurer), £5770 and two-thirds of the residue of the estate, Estate



of Christopher Collins, £6085; legacy from Miss J. F. Osler, approximately £40,000; Miss K. E. Bunce, £680; R. Fenwick for Scholarships, £6000; Emeritus Prof. Muirhead, £1050 (Post-graduate Scholarship); Francis Fletcher's estate (for Medical Scholarships), approximately £30,000; value of the land given by the Hon. Mrs. Gough-Calthorpe, £20,000; an anonymous Charitable Trust, £11,101 to the permanent endowment of a Readership in Geography (previously guaranteed for five years only). Numerous gifts in cash, apparatus, etc., from individual owners and firms in the Midlands. The Corporation Council of Birmingham has approved the principle of a penny rate for the University (July 1928), to come into operation after April 1, 1929, if financial conditions permit. This will raise the city grant from £15,000 to approximately £23,000.

**NEW BUILDINGS.** The New Biological block, opened by the Prime Minister on October 20, 1927, is now in full use, and the reorganization and extension of the staff for the three biological departments has practically been completed. The extension of Chancellor's Hall, also opened by the Prime Minister, will be available for the present session, and the number of resident students (96) is complete. In the course of last session the gift from the Hon. Mrs. Gough-Calthorpe of 45 acres on the north side of University Road completed the original gifts, amounting to 65 acres, between 1900 and 1914. With the land acquired by the University from its own resources the whole University site at Edgbaston will occupy 120 acres, and this will provide for all necessary developments in the future. The planning of the new site is being actively proceeded with, and the necessary planting and making of a central avenue to meet the new road which is being made by the city to the north) has been approved.

**STUDENTS' UNION.** The plans for the Students' Union on the site acquired by the University on the south side of University Road have now been completed and the building of the new Union begun. The scheme for a new Hospital Centre on a site adjoining the University site to the west is being actively proceeded with, and the organization of the buildings which will be required for the transference of the Faculty of Medicine from Edmund Street is being worked out along with the plans for the creation of a new teaching Hospital of, it is hoped, 750 beds.

**NEW POSTS.** Full-time additional Assistants in the Departments of Education, History, and Physiology have been approved.

**NEW DEVELOPMENTS.** The facilities at Edmund Street, both for the Cancer Research Committee and the University and City Joint Research Board for Mental Diseases, consequent upon the transfer of the biological departments from Edmund Street to Edgbaston, have now been completed. Further facilities in the way of rooms and laboratories have also been provided for the Professor of Gynaecology and for the Professor of Public Hygiene. A new biological laboratory and two new rooms for Arts and Crafts have been assigned to the Education Department. The accommodation for the Faculty of Law has been reorganized and concentrated at Edmund Street, together with a special Departmental Library for Law Students.

**DEPARTMENT OF COAL AND METAL MINING.** The Fuel Treatment laboratory which is part of this Department has been brought into closer connexion both as regards teaching and its place in the curriculum and as regards accommodation and staff. A further extension of the Mining Research Department is also in process of being carried out.

**HONORARY DEGREES.** *LL.D.*—The Rt. Hon. Stanley Baldwin, P.C., M.P.;

The Right Hon. the Lord Chancellor (Lord Hailsham) ; The Right Hon. the Lord Chief Justice (Lord Hewart) ; The Right Hon. Lord Atkin of Aberdovey ; The Hon. Mr. Justice McCardie ; W. S. Holdsworth, F.B A., D.C L. (Vinerian Professor of English Law in the University of Oxford) ; R. A. Pinsent, M.A.

STUDENTS. Full-time · total, 1352, including 147 graduates. Part-time : total, 171, including 38 graduates.

DEGREES. B A., 96 ; B.Sc., 102 ; M.B., Ch.B., 23 ; B.Com., 12 ; LL.B., 7 ; M.A., 21 ; M.Sc., 16 ; Ph.D., 15 ; M.D., 7 ; M.Com., 2 ; B Mus., 1 ; B.D.S., 1.

# UNIVERSITY OF BRISTOL

VISITOR—H.M. THE KING.

CHANCELLOR—..... (*ex officio* President of Court, Council, and Convocation).

PRO-CHANCELLORS—Rt. Hon. HENRY HOBHOUSE, M A, LL.D.; The Rt Rev. the LORD BISHOP OF BRISTOL, D.D., LL D.; STANLEY H. BADOCK, LL.D.

VICE-CHANCELLOR—THOMAS LOVEDAY, M A Ox, LL.D.

PRO-VICE-CHANCELLOR—Prof. F FRANCIS, D Sc., Ph D., F I C.

TREASURER—STANLEY H BADOCK, LL.D.

DEANS OF FACULTIES. See under "General Information"—Faculties.

LIBRARIAN—W. L COOPER, M A Ox.

HON MEDICAL LIBRARIAN—W A SMITH, M A., M B., M R C S.

TUTOR TO THE WOMEN STUDENTS AND WARDEN OF THE UNIV. HALL OF RESIDENCE FOR WOMEN—MAY C. STAVELEY, M A.

DIRECTOR OF SCHOOL CERTIFICATES—Prof. F F BOILLOT, M.A.

DIRECTOR OF EXTRA-MURAL STUDIES—J H NICHOLSON, M A.

REGISTRAR—E. G. FRANCIS, M.A. Camb.

CHIEF ACCOUNTANT—I FOX

SECRETARY—WINIFRED SHAPLAND

## ASSOCIATED INSTITUTIONS

(In which specialized teaching is given or facilities for research are afforded )

ROYAL AGRICULTURAL COLLEGE, CIRENCESTER, founded 1845 and associated with the Univ. from 1910, was closed during the war, but was reopened in 1923. *Principal*—Prof. J. A. Hanley, A R C S, Ph.D

NATIONAL FRUIT AND CIDER INSTITUTE, LONG ASHTON (v. *infra*, LABORATORIES). *Director*—Prof. B. T. P. Barker, M.A.

REDLAND HIGH SCHOOL, COLSTON'S GIRLS' SCHOOL, and CLIFTON HIGH SCHOOL, BRISTOL, for kindergarten training.

GLOUCESTERSHIRE TRAINING COLLEGE OF DOMESTIC SCIENCE, for practical course for B.Sc. in Dom. Sc.

### *Theological—*

BRISTOL BAPTIST COLLEGE. *Principal*—A. Dakin, B.D. Lond., D.Th. Heid.

WESTERN COLLEGE, BRISTOL. *Principal*—R. S. Franks, M.A., D.Litt., LL.D.

THEOLOGICAL COLLEGE, SALISBURY. *Principal*—C. T. Dimont, M.A., D.D.

ST. BONIFACE MISSIONARY COLLEGE, WARMINSTER. *Principal*—J. W. S. Tomlin, M.A.

## PROFESSORS, LECTURERS, ETC.

*Agriculture*

- Hanley, J. A., A.R.C.S., Ph.D. Munich Prof.  
 Barker, B. T. P., M.A. Camb. (A. Biology) Prof.  
 Wallace, T., M.Sc. Durh., A.I.C. (A. Chem.) Lectr.  
 Grove, O. (Enology), M.Sc. Lectr.  
 Walton, C. L., M.Sc., Ph.D. Wales (Entomology) Lectr.  
 Spinks, G. T., M.A. Camb. (A. Botany) Lectr.  
 Tutin, F. (Bio-Chem.), M.Sc. „ Lectr.  
 Maynard, J. G., M.A. Camb (Pomology) Lectr.  
 Swarbrick, T., M.Sc., Ph.D. (Plant Physiology) Asst Lectr.  
 Hutchinson, H. P., B.Sc. (Willow-growing) Lectr.  
 Dawe, C. V., M.Com. Leeds (A. Economics) Asst. Lectr.  
 Staniland, L. N., A.R.C.Sc. (Entomology) Asst Lectr.  
 Ogilvie, L., M.A. Aberd., M.Sc. Camb. (Mycology) Asst Lectr.  
 Marsh, R. W., B.A. Camb (Mycology) Asst Lectr.  
 Ling, A. W., M.Sc., N.D.A. (A. Chem.) Asst Lectr.  
 MacEacharn, C. A., B.Sc. Durh. (Dairy Bacteriology) Asst. Lectr.  
 Charley, V. L. S., B.Sc. (Bio-Chemistry) Research Asst.  
 Jones, J. O., M.Sc. Wales (Soil Analysis) Research Asst.  
 Osmond, D. A., B.Sc. (Soil Survey) Research. Asst.

At Campden Fruit and Veg Preserving Station.

- Hirst, F., M.Sc., A.R.C.S. Lectr. (Micro-Biology)  
 Adam, W. B., M.A. Cantab. (Agric. Chemistry) Asst. Lectr.  
 Adams, Miss M. Demr

*Anatomy*

- Fawcett, E., M.D., C.M. Edin., F.R.S. Prof.  
 Stock, W. S. V., M.B., B.S. Lond., F.R.C.S. Demr.  
 Llewelyn, Miss G. R., M.Sc. Demr.  
 Adams, A. W., M.B., M.S. Lond., F.R.C.S. Demr.  
 Moore, C. A., M.S., M.B. Lond., Ch.M., F.R.C.S. (Surg. and Applied Anat) Lectr.

*Anthropology*

- ..... Lectr.  
*Arabic, Aramaic, etc*, v. Orient.

*Art*

- Constable, W. G. (S.).  
*Bio-Chemistry*, v. also Agric.  
 Nierenstein, M., Ph.D. Berne, D.Sc. Gén. Lectr.

*Botany*, v. also Agr.

- Darbishire, O. V., B.A. Ox., Ph.D. Kiel Prof.  
 MacGregor Skene, D.Sc. Aberd. Lectr.

- Ferguson, Grace G., B.Sc., M.S. Wisconsin Lectr.  
 Bracker, Miss R., M.Sc. Asst Lectr.

- White, J. W., M.Sc. (Systematic B) (S).  
 Gardiner, G. F., F.R.H.S. (Gardening) (R.).

*Chemistry*, v. also Agric.

- Francis, F., D.Sc. Manc., Ph.D. Erl, F.I.C. A.C. Pass Prof.  
 Travers, M. W., D.Sc. Lond., F.R.S.

Research Fellow in Applied Physical Chemistry and Hon Prof

- Davis, O. C. M., D.Sc. Lond., D.Sc., M.D., Ch.B., F.I.C. (also Lectr. in Med. to Dental Students and in For. Med. and Toxicol)\* Lectr.

(R.)=Recognized teacher (S.)=Special Lectr. \* Head of Dept.

- Rixon, F. W., M.Sc. Manc., Ph.D.  
Gies., M.A., F.I.C. Lectr.  
Taylor, Millicent, D.Sc., F.I.C.  
Lectr.  
Menzies, R. C., Ph D. St. And.,  
F.I.C. Lectr.  
Malkin, T., Ph.D. ....  
King, Annie M., Ph.D.  
Research Asst.  
*Chemistry, Applied*, v. p. 38.  
*Chemistry, Hygienic* [Lectr  
Russell, E., B Sc Lond., F.I.C.  
*Chemistry, Physical*  
Garner, W. E., M A. Lond., D Sc.  
Birm. Leverhulme Prof  
*Domestic Science*  
Whitaker, Ruth Lectr.  
*Classics* [H. O Wills Prof  
Dobson, J. F., M.A. Camb. (Greek)  
..... Prof  
Pitman, H., M.A Ox Lectr  
Cuttle, W. L., B A. Camb.  
Asst Lectr.  
*Commerce*, v. Engineering  
*Dental Science*, v. *infra*  
*Economics*  
Whyte, W. H , M A. Leeds Lectr.\*  
Burrows, H. B., B.Com. Leeds  
Lectr.  
*Education*  
Wodehouse, Helen M., M.A.,  
D.Phil Birm. Prof.  
Foster, T. S., M.A Ox , Master of  
Method Reader.\*  
Childs, E. C., M.A., B.D. Lond.  
Lectr.  
Nicholson, J. H., B.A. Ox., M.A.  
Lectr.  
Cott, H. B , B.A Camb., F Z S.  
Lectr.  
Whitwill, Gladys C., N.F U.  
Lectr.  
Pille, J. G , B.A Ox Lectr.  
Stone, Thora G., M.A. ....  
Warrell, A., F.R C.O.  
Lectr. (*Music*).  
Asst. Lectrs. (v. also Local Gov.):  
Hamilton, Miss R. E. Asst. Lectr.  
Walker, Mrs. Cyril  
(Hygiene) (R.).  
Byrne, Miss J. W. (Kindergarten).  
Gothorp, Miss M. (Kindergarten).  
Skinner, F. Drawing (R.).  
Elliott, Miss M. K. (Kindergarten)  
Poles, Marjorie S.  
Phys. Exerc. (R.).  
*Engineering*, v. p. 38.  
*English* [Winterstoke Prof.  
Crofts, J. E. V., B.A., B.Litt. Ox.  
Haworth, P., M.A. Manc., Ph D.  
Innsb. Lectr.  
Birkhead, Edith, M.A. Liv. Lectr.  
Needham, H A , M.A Birm ,  
Doct de l'Univ. de Paris  
Lectr.  
*French*, v. also p. 38 [Prof.  
Boillot, F. F., M A. Shef., L. ès L.  
Perkins, B. N., M.A Camb. Lectr.  
Warne, F. J., B A. Lond.  
Asst. Lectr.  
*Geography* [Reader.\*  
Jervis, W. W., M Sc. Durh , F G.S.  
Kendall, O. D., B A. Camb. Lectr.  
*Geology*  
Reynolds, S. H., M A , Sc D.  
Camb. C. Wills Prof  
Turner, H. W., M.A. Ox., F.G.S.  
Lectr.  
Smith, S., M.A. Camb., D.Sc.  
Durh. Lectr.  
Wallis, F S , Ph D. Asst. Lectr.  
*German* [Reader.  
Boyd, J., M.A , B.Litt. Ox.  
*Hebrew*, v. Orient. Langs.  
*History*  
Mowat, R. B., M.A. Ox. Prof.  
Staveley, May C., M A. Dub.,  
M.A. Lectr.  
MacInnes, C. M., M.A. Ox. Lectr.  
Gough, J. W., M.A. Ox. Lectr.  
*Italian*  
..... Lectr.\*

- Law** [Lectr.\*  
 Lewis, M. M., M.A., LL.B. Camb.  
 Veale, E. W. W., LL.M. Lond.  
 Asst. Lectr.  
 Wilshire, A. M., M.A. Ox., LL.B.  
 Lond. Lectr. (Comml. L.).
- Mathematics**  
 Hassé, H. R., M.A. Camb., D.Sc.  
 Manc. H. O. Wills Prof.  
 Todd, H., B.A. Camb. Lectr.  
 Vint, J., M.A. Belf. Lectr.  
 Fraser, P., M.A. Camb., B.Sc.  
 Aberd. Reader (Geometry).  
 Hodge, W. V. D., M.A. Edin  
 Asst. Lectr.
- Maths., Applied**  
 Boulton, E. S., M.A. Camb, B.Sc.  
 Lond. Prof
- Medicine, v. *infra***
- Military Subjects**  
 Stuart, Capt R. S. D (S.).
- Mining, v. Engin**
- Music, v. Educn**
- Oriental Languages**  
 O'Leary, De L., M.A., D.D. Dub  
 (Aramaic and Syriac) (S).  
 Polack, J., B.A. Lond. (S).
- Philosophy, v. also Educn**  
 Field, G. C., M.A. Ox Prof.  
 Carré, M. H., M.A. Ox. Lectr.
- Physics, v. also Chem, Math.**  
 Tyndall, A. M., D.Sc. Lond., D.Sc.  
 H. O. Wills Prof.  
 Lennard-Jones, J. E., D.Sc. Manc.,  
 Ph.D. Camb. (*Theoretical*  
*Physics*) Prof  
 Skinner, H. W. B., M.A., Ph.D.  
 Camb  
 H. H. Wills Research Fellow  
 Jackson, L. C., M.Sc. Lond., Ph.D.  
 Leiden  
 H. H. Wills Research Fellow.  
 Williams, Iltyd, M.Sc. Wales  
 Lectr.  
 Piper, S. H., D.S.O., B.Sc., F.I.P.  
 Lond Lectr.
- Sucksmith, W., B.Sc. Leeds Lectr.**  
**Potter, H. H., Ph.D. Lond, B.Sc.**  
 Lectr.  
**Bennett, M. G., M.Sc.**  
 Research Asst.  
**Dent, Beryl M., M.Sc.**  
 Research Asst.  
**Powell, C. F., B.A.** Research Asst.
- Physiology**  
 Buckmaster, G. A., M.A., M.D.,  
 B.Ch., D.P.H. Ox  
 H. O. Wills Prof.  
 Hickman, H. R. B., M.A., M.B.,  
 B.Ch. Ox. Lectr.  
 Wiltshire, Marion O. P., M.Sc.  
 Lectr.
- Social Work**  
 Orpen, A. Kathleen (R).
- Technology, v. *infra***
- Theological Subjects**  
 Dakin, A., B.D. Lond, D.Th. Heid.  
 Robinson, F. E., B.A., B.D. Lond.,  
 M.A.  
 Franks, R. S., M.A. Camb,  
 D.Litt. Ox, LL.D.  
 Dimont, C. T., D.D. Ox., M.A.  
 Bellars, A. R., M.A. Camb. and  
 Bris  
 Hawes, A. J. G., B.D. Lond  
 Clayton, J. F., M.A. Ox.  
 Richardson, A. T., M.A. Ox  
 Prideaux, S. P. T., D.D. Ox.  
 Hall, J. G., B.A.  
 Tomlin, J. W. S., M.A. Ox
- Zoology** [Reader  
 Henderson, W. D., M.A., B.Sc.  
 Aberd, Ph.D. Freib. 1/B.  
 Kearns, H. G. H., B.Sc. Lond.  
 Asst. Lectr.
- Medicine (for subjects of first 2  
 yrs —Anat., etc., v. *supra*)**  
**Anæsthetics** [Lectr.\* (C).  
 Flemming, A. L., M.B., Ch.B.  
 Corfield, C., M.D. Durh. (C).  
 Cooper, R., M.R.C.S., L.R.C.P.  
 (R.).

(C.)=Clinical Lectr. (R.)=Recognized teacher. (S.)=Special Lectr.

\* Head of Dept.

Stock, W. S. V., M.B., B.S. Lond.,  
F.R.C.S. (v. also Anat.).

Tutor.

Logan, H. B., M.R.C.S., L.R.C.P.  
Tutor.

*Bacteriology, v. Pathology*

*Diseases of the Skin*

Wills, W. K., O.B.E., M.A., M.B.,  
B.Chir. Camb. (C).

Kingston, S. H., M.B., Ch.B.,  
D.P.H. (C)

*Fevers*

Peters, B. A., M.D., B.Ch., D.P.H.  
Camb. (C)

*Forensic Med., etc., v. Chem.*

*Laryng, Rhin., and Otology*

Watson-Williams, E., M.B., B.Ch.  
Camb, Ch.M. (C).

Wright, A. J. M., M.B., B.S. Lond.,  
M.B., Ch.B., F.R.C.S.

(C) Lectr \*

Scarfe, G., M.B., Ch.B. Edin. (C)

Harris, H. E., B.A., M.B., Ch.B.  
Camb (R).

James, J. A., M.D., B.S. Lond.,  
F.R.C.S. (R)

*Medicine, v. also Path, Pharm*

Edgeworth, F. H., M.A., M.D.,  
B.Chir. Camb, D.Sc. Lond.

(C.) Prof.

Nixon, J. A., C.M.G., B.A., M.D.,  
B.Chir. Camb, F.R.C.P.

Clinical Dean and Prof.

Coombs, C. F., M.D., B.S. Lond.,  
F.R.C.P. Clinical Dean (C).

Charles, J. R., M.A., M.D. Camb.,  
F.R.C.P. (C).

Clarke, R. C., O.B.E., M.B., Ch.B.  
(C)

Birrell, J. A., M.D., B.S. (C).

Jr. Tutor

Herapath, C. E. K., M.D., B.S.  
Lond (C).

Carleton, H. H., M.A., M.D., B.Ch.  
Ox. Sr. Tutor (C).

Trist, J. R. R., M.R.C.S., L.R.C.P.  
Jr. Tutor (R).

*Medicine (Dental Students)*

Davis, O. C. M. (v. Chem) Lectr  
*Mental Diseases* [(C).

White, E. B. C., M.R.C.S., L.R.C.P.  
*Obstetrics* [Prof (C).†

Rayner, D. C., F.R.C.S.  
Statham, R. S. S., O.B.E., M.D.,

Ch.M. Demr (C)

Smythe, H. J. D., M.S. Lond.,  
F.R.C.S. (C)

Baker, Lily, M.D., B.Ch. Lond.,  
B.A.O., F.R.C.S.I. (C).

Shepherd, H. L., Ch.M. (R)

*Ophthalmology*

Walker, C. H., B.A., M.B. Camb.,  
F.R.C.S. (C) Lectr \*

Cross, F. R., M.B. Lond., LL.D.,  
F.R.C.S. Reader.

Iles, A. E., M.B., B.S. Lond.,  
F.R.C.S. (C)

Chambers, E. R., F.R.C.S.E.,  
D.O.M.S. (C).

Garden, R. R., M.A., M.B., Ch.B.  
Aberd., D.P.H. (R).

*Pathology, v. also Pub. Health*

Hall, I. W., M.D., Ch.B. Manc.  
Prof

*Path. and Bacteriology*

Todd, A. T., O.B.E., M.B., Ch.B.  
Edin (also (C) in Med) Lectr

Taylor, A. L., M.D. Leeds. Demr.  
Magee, V., M.B., B.Ch. Belfast,

B.A.O., D.P.H. Demr.

*Pharmacology and Therap*

Neild, Newman, M.B., Ch.B. Vict  
(also (C) in Med.) Lectr.\*

*Pharmacy (Practical)*

Taylor, A. L., M.P.S. (R)

Hetherington, W., Ph.C. (R)

*Physio-Therapy* [(R).

Christofferson, P. E., M.B., Ch.B.  
*Public Health*

Askins, R. A., M.D. Dub., D.P.H.  
Camb. Lectr.\*

(C.)=Clinical Lectr. (R.)=Recognized teacher. \* Head of Dept.

† Director of Clinical Studies.

Fraser, A. D., M.A., B.Sc., M.B.,  
Ch.B. Glas., D.P.H.  
Demr. in Path

*Radiology*

Bush, G. B., M.B., Ch.B. (R.).

*Radio-Therapy* [(C).]

Mayes, F. J. A., M.R.C.S., L.R.C.P.

*Skiagraphy* [(C).]

Bergin, F. G., M.R.C.S., L.R.C.P.

*Surgery*

Groves, E. W. H., M.D., M.S.,

B.Sc. Lond., F.R.C.S. Prof †

Chitty, H., M.B., M.S. Lond.,

F.R.C.S. (C).

Walters, C. F., F.R.C.S. (C)

Moore, C. A., M.S., M.B. Lond.,

Ch.M., F.R.C.S. (C).

Short, A. R., B.Sc., M.D., B.S.

Lond., F.R.C.S. (C).

Wood, D., F.R.C.S. (C)

Adams, A. W., M.B., M.S. Lond.,

F.R.C.S. (C).

Tasker, D. G. C., M.B., M.S. Lond.,

B.Sc., F.R.C.S. (C).

Jackman, W. A., M.B., Ch.B.

Lectr. to *Dental Students* (C)

Tutor.

Kemm, N. ff., M.B., B.S. Lond.,

F.R.C.S. Edin. (R)

Gorham, A. P., M.B., Ch.B.

(R) and Tutor.

**Dental Science**

*Dental Mechanics*

Wing, J. C., L.D.S. Lectr.\*

*Dental Surgery*, v. also Chem.  
and Surg.

Claremont, L. E., L.D.S., M.R.C.S.,

L.R.C.P. (C.) Lectr.\*

Nichols, F. C., M.B., Ch.B.,

L.D.S. (also in D. Anat.)

Lectr. & Demr. (C).

Kettlewell, N. H., L.D.S. Tutor.

Rigg, S. K., L.D.S. Tutor.

Fawn, G. F., B.D.S. Tutor.

Lennox, W. J., B.D.S. Tutor.

Tratman, E. K., B.D.S. Tutor.

**Engineering**

(In the Technical College of the  
Society of Merchant Venturers)

*Applied Chemistry* [Lectr.

Andrews, W. A., B.Sc. Birm., A.I.C.

*Automobile Engineering*

Morgan, W., B.Sc., M.I.A.E. Prof.

*Civil Engineering*

Pippard, A. J. S., D.Sc. Prof.

Francis, W. E., B.Sc. Wales Lectr.

*Drawing*

Baker, J. W. Instr.

Mountney, C. F., A.M.I. Mech.E.

Instr.

*Engineering Comm'l Subjects*

Griffin, A. Lectr.

*Electrical Engineering*

Robertson, D., D.Sc. Glas.,

M.I.E.E. Prof

Holmes, S. Lectr

*Mechanical and Mining En-*

*gineering*

Robertson, A., D.Sc. Edin. Prof.

Watson, F. R. B., B.Sc. Edin.

Lectr (Mech E)

Stephens, G. A., B.Sc.

Asst. Lectr (Mech E)

Newport, A. J., B.Sc.

Research Asst (Mech E).

*French and German for Engin-*

*Students* [Asst. Lectr

Bennett, Edith, M.A. Birm.

**University Extension**

Director of Extra-mural studies

—Nicholson, J. H., M.A. (v.

Educn.).

Extra-mural Lecturers: 41 mem-

bers of the staff, including 17

for Tutorial Classes and 3 for

Preparatory Classes.

Resident Tutor—Gloucester

W. E. Salt, M.A. Sheff., B.Com.

Man.

Resident Tutor—Somerset

S. H. Cair, B.Sc. Lond.

(C.)=Clinical Lectr. (R.)=Recognized teacher. \* Head of Dept.

† Director of Clinical Studies.



## GENERAL INFORMATION

University College, Bristol, founded in 1876, was dissolved in 1909 on the incorporation by Royal Charter of the Univ. of Bristol. The main buildings, including a large extension recently opened which cost £500,000, a new building for the accommodation of the Physics department (cost £200,000), and other projected additions, when complete, will cover a site of 16 acres near the centre of the city on high ground adjoining residential districts. The Municipal Museum and Art Gallery adjoin.

The TECHNICAL COLLEGE OF THE SOCIETY OF MERCHANT VENTURERS provides accommodation for and maintains the Faculty of Engineering of the University. Dean of the Faculty—Prof. Andrew Robertson, D.Sc.

LIBRARIES, 78,000 vols. LABORATORIES. Scientific, Medical, and Engineering, all equipped for purposes of research. Agri-Horticultural station at Long Ashton with Expl. fruit plantations 268 acres devoted to research in fruit-culture, cider-making, plant diseases and their treatment, etc. Fruit and vegetable preservation research station at Campden, Glos., controlled by the Univ. on behalf of the Ministry of Agr., for instruction and experimentation on a semi-commercial scale. Hospitals available for clinical study, 2 General (628 beds), Children and Women (100), Eye (40), in all 768 beds.

FACULTIES. Arts, Science, Medicine, Engineering. Deans · Prof. Crofts (English), Prof. Hassé (Mathematics), Prof. Fawcett (Anatomy), Prof. A. Robertson.

*Special Departments.* Education (places for 180 men and 180 women students); Agriculture and Horticulture; Pathological Laboratory (for investigation of epidemic and other outbreaks, examination of waters and foods).

MATRICULATION. In common with all other English Univs., Bristol holds School and Higher School Certificate Examns., at which candidates may qualify for matriculation. It holds no separate matriculation examn. See also Appendix XX.

DEGREE COURSES. B.A., B.Sc., B.Sc. in Agriculture, B.Sc. in Engineering—3 yrs., including at least 2 in the Univ.; Honours in Arts and Pure Science—4 yrs., except for those who enter with Higher School Certif.; B.Sc. in Domestic Science—4 yrs.; by research in case of a graduate of another Univ.—2 yrs.; "Sandwich" Scheme of Training for Engineers, including 30 mos. in works—5 yrs.; M.B., Ch.B.—5 yrs., after passing a Prelim. Science examn. in Chem. and Physics; B.D.S.—5 yrs., including at least 3 in the Univ.

Instruction given in Theological subjects in the Associated Colleges to undergraduates of the Univ. by the Principal or teachers mentioned above is, for the purpose of the B.A. degree, deemed to be given in and by the Univ.

*Post-graduation medical studies* are under the direction of the Prof. of Pathology, who arranges for weekly afternoon demonstrations and discussions in April and May. Fee for the course, 1 guinea.

HIGHER DEGREES. M.A., D.Litt.; M.Sc., D.Sc. (in Pure Sc. or Engineering); Ch.M., M.D.; Ph.D. (see p. 18). Graduates of other Univs. are placed practically on the same footing as graduates of Bristol as far as regards facilities for proceeding to all these except the Medical Degrees. Candidates who graduate with Honours in Science may take the M.Sc. one yr. later. Otherwise the Mastership is not granted within 2 yrs. after graduating. The M.D. may be taken 2 yrs. after graduating in Med., the D.Litt. 4 yrs. after the

M.A., and the D.Sc 4 yrs. (3, if devoted to original work in the Univ.) after the M.Sc.

**DIPLOMAS.** Education (post-graduate) 1 yr., L.D.S. 4 yrs., D.P.H. (for fully registered medical practitioners of 2 yrs.' standing), 9 months, D.V.S.M. (for M.R.C.V.S. of 1 yr.'s standing), Engineering 3 yrs.

**CERTIFICATES.** Testamur in Educn, 1 yr.; Continuation School Teachers' Certif., 1 yr.; Testamur in Social Study, 2 or (Higher Testamur) 3 yrs., Testamur in Biology, 1 yr.; Engineering Apprentices, 2 yrs.

**FEES.** Matricn., 3 gs.; Registration, £1:10s; Tuition, annual, B.A., 24 gs, Theol. Students (1st year only), 20 gs, B.Sc., 30 gs; B.Sc. in Engin., 40 gs. (Lab. practice alone, 4 gs. per term for one day a week), M.B., Ch.B., entire curriculum, 205 gs.; B.D.S., including mech. lab. and hospl. practice, 215 gs.; Testamur in Social Study, 2 yrs., 27 gs.; Degree examns. (including Graduation), B.A. or B.Sc., 9½ gs.; M.D., 24 gs.; M.D.S., 24 gs.; M.A. and M.Sc., 9½ gs.; Ph.D., 13 gs. Univ. Union, £3:3s. per annum.

**RESEARCH** The Colston Research Society devotes annually about £400 to the promotion of Research in the Univ. It offers, preferably to Bristol graduates, fellowships of £150 each, the money being provided by donors, who are allowed to determine the subject of the research and, subject to the approval of the Board of the Faculty, to nominate the holder. The donor has a right of access to the research work and to receive the result of it 12 months prior to publication.

**SCHOLARSHIPS FOR GRADUATES.** £160 for research in Engin., £40 and £31 (women only), £46 (men only), for post-graduate course, £52 for Chemical Metall. research; £7 for study in English Lit., studentship in Mod. Langs., £80.

**RESIDENCE.** Mortimer House and Canynge Hall for men—from £75 and £67:10s. p.a., Clifton Hill House and 3 other residences for women students—from 60 gs. p.a.

**APPOINTMENTS BOARD.** Secy, T. A. Leach, M.A.

For FORMER STUDENTS there is an Association of Alumni.

**UNIVERSITY EXTENSION.** A Joint Board was formed in 1922 consisting of representatives of the Univ. of Bristol, the Univ. College of the South-west of England, Exeter, and the Univ. College of Southampton. Secy—J. H. Nicholson, M.A., Director of Extra-mural Studies, The University, Bristol.

*Co-operation with Rural Community Councils* The Univ. appoints 3 representatives to the R.C.C. of Gloucestershire and Somerset respectively. The Director of Extra-mural Studies in the Univ. is Vice-Chairman of the Gloucestershire R.C.C., and Chairman of the Education Committee of each of the two Councils. The Gloucestershire R.C.C. contributes to the salary of a whole-time tutor for Adult Education, appointed by the Univ. for that County.

**PUBLICATIONS** *Calendar*, Faculty prospectuses issued in June, annual report of Council; Pamphlets on Extension Lectures (with list of lectures on the Bristol, Southampton, and Exeter panels), Public Lectures, Halls of Residence, Regns. for Matricn. and for School Certif. Examns. (*Examn. Papers*, 1s. 3d. per set post free); Students' Mag. *Nonesuch*, 1s.

## THE YEAR 1927-28

**BENEFACTIONS.** From the Chancellor, Viscount Haldane of Cloan, O.M., K.T. (bequest), £2000; Captain Nathaniel Forte (bequest), £50; Sir George Wills (bequest), £2200. **SCHOLARSHIP:** An entrance scholarship was provided by Messrs. J. S. Fry & Sons in commemoration of the two hundredth anniversary of the firm.

**NEW BUILDINGS AND EQUIPMENT.** The Henry Herbert Wills Physics Laboratory was opened by Sir Ernest Rutherford, O.M., D.Sc., F.R.S., President of the Royal Society, in October 1927. The new Hall of Residence for men, to which Sir George Wills made generous gifts, is nearing completion. A chapel, the gift of Dame Monica Wills, is to be erected in the grounds. The new Hall of Residence for women is in progress. The extension of the laboratories at the Agricultural and Horticultural Research Station, Long Ashton, was opened by the Minister of Agriculture, the Rt Hon Walter Guinness, in July.

**LEGISLATION.** The Privy Council have approved amendments to Statutes providing for the election to Council by the non-professorial staff of two members.

**AN ANNUAL LECTURE** in Physics has been established in memory of the late Henry Herbert Wills.

**CONFERENCES.** The Physical Society of London and the Mind Association and Aristotelian Society held their annual meetings in the University buildings.

**INTERCHANGE.** Lectures were delivered by Prof. J. M. Carré of the University of Lyons, Sir William Bragg, Prof. Langerin, and Prof. Born. J. H. Nicholson, Lecturer on Education, gave a vacation course in the University of Iowa.

**RETIREMENTS AND RESIGNATIONS.** G. H. Leonard, Professor of Modern History; R. M. Ferrier, Professor of Civil Engineering; E. P. Weller (Agric. Economics), R. M. Nattrass (Mycology), H. Ann Drummond (Education), J. E. G. Carlson (Physical Training), Signorina E. Gualtieri (Italian), J. M. Low (Zoology), C. Hadfield (Pathology), J. D. Symes (Medicine).

**DEATHS.** Viscount Haldane of Cloan, Chancellor; Sir George A. Wills, Bart., LL.D., Pro-Chancellor; Alice Gardner, Reader in Byzantine History; A. E. Burn, Recognized Teacher in Theology; J. P. I. Harty, Clin. Lectr. in Laryngology.

**UNIVERSITY EXTENSION.** In rural areas the work is organized by Resident Tutors (44 centres in Gloucestershire, 56 in Somerset); 22 short courses, 114 lectures were given.

**HONORARY DEGREES.** LL.D.—R. S. Franks; the Rt. Rev. R. E. Ramsay, Bishop of Malmesbury; the Rt. Rev. A. C. Headlam, Bishop of Gloucester; Thomas Loveday, Vice-Chancellor. D.Sc.—Max Born, Sir W. H. Bragg, A. S. Eddington, A. Fowler, Paul Langevin, Sir Ernest Rutherford, J. W. McBan. M.A.—Alderman S. W. Bush.

**STUDENTS.** Total: full-time, 878, including 16 graduates. Part-time and occasional, 56; Extension, 380; Summer School, 65.

**DEGREES.** B.A., 64; B.Sc., 26; B.Sc. in Eng., 14; M.B., Ch B., 11; B.D.S., 1; M.A., 5; M.Sc., 6; Ph.D., 2; M.Sc. in Eng., 2; D.Litt., 1; D.Sc., 1.

# UNIVERSITY OF CAMBRIDGE

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VICE-CHANCELLOR—T. C. FITZPATRICK, D.D., President of Queens' College.

HIGH STEWARD—His Grace the DUKE OF DEVONSHIRE, K.G., G.C.M.G.,  
G.C.V.O., B.A., Hon. LL.D. Trinity.

DEPUTY HIGH STEWARD—Rt. Hon. BARON HANWORTH, K.B.E., M.A.  
Trinity, Master of the Rolls.

COMMISSARY—Hon. Sir M. M. MACNAGHTEN, K.B.E., K.C., M.A.  
Trinity, M.P.

PROCTORS—E. E. RAVEN, M.A., St. John's, T. C. WYATT, M.A. Christ's.

ORATOR—T. R. GLOVER, M.A. St. John's.

REGISTRARY—E. HARRISON, M.A. Trinity.

FIRST ASSISTANT REGISTRARY AND SECRETARY OF THE GENERAL BOARD  
OF THE FACULTIES—R. E. PRIESTLEY, M.A. Clare, ASSISTANT  
REGISTRARY AND SECRETARY OF THE BOARD OF EXAMINATIONS—  
H. CLAYE, M.A. Gonville and Caius

LIBRARIAN—A. F. SCHOLFIELD, M.A. King's.

REPRESENTATIVES IN PARLIAMENT—Sir G. G. G. BUTLER, K.B.E.,  
M.A. Corpus, J. J. WITHERS, C.B.E., M.A. St. Catharine's and  
King's

## HEADS OF COLLEGES

CHRIST'S	<i>Master</i>	N. McLEAN, M.A.
CLARE	„	W. L. MOLLISON, LL.D.
CORPUS CHRISTI	„	W. SPENS, M.A.
DOWNING	„	Prof. A. C. SEWARD, Sc.D., F.R.S.
EMMANUEL	„	P. GILES, Litt.D.
GONVILLE AND CAIUS	„	J. F. CAMERON, M.A.
JESUS	„	A. GRAY, M.A.
KING'S	<i>Provost</i>	A. E. BROOKE, D.D.
MAGDALENE	<i>Master</i>	A. B. RAMSAY, M.A.
PEMBROKE	„	Prof. A. HUTCHINSON, M.A., F.R.S.
PETERHOUSE	„	LORD CHALMERS OF NORTHAM, P.C., G.C.B., M.A., LL.D.
QUEENS'	<i>President</i>	T. C. FITZPATRICK, D.D.
ST. CATHARINE'S	<i>Master</i>	F. M. RUSHMORE, M.A.
ST. JOHN'S	„	Sir R. F. SCOTT, M.A.

SIDNEY SUSSEX	<i>Master</i>	G. A. WEEKES, M.A.
TRINITY	„	Sir J. J. THOMSON, O.M., M.A., Hon. Sc.D., F.R.S.
TRINITY HALL	„	H. BOND, LL.D.
SELWYN	„	G. E. NEWSOM, M.A.
Non-Collegiate Students: <i>Censor</i>		W. S. THATCHER, M.A.

## RECOGNIZED COLLEGES FOR WOMEN

GIRTON	<i>Mistress</i>	Miss E. H. MAJOR, M.A.
NEWNHAM	<i>Principal</i>	Miss J. P. STRACHEY, M.A.

## PROFESSORS, LECTURERS, ETC.

<i>Aeronautics</i> , v Engineering	Pennell, V. C., M.A., M.B., B.Chir.
<i>Agriculture</i> , v. also Animal, Estate Man., Forestry	Pemb Demr.
Wood, T. B., C.B.E., M.A. Cai	<i>Anglo-Saxon</i>
Drapers Prof	Chadwick, H. M., M.A. Clare
Venn, J. A., M.A. Trin.	Elrington and Bosworth Prof
Gilbey Lectr.	<i>Animal Pathology</i>
Amos, A., M.A. Down Lectr	Buxton, J. B., M.A. Prof.
Engledow, F. L., M.A. Joh Lectr	<i>Anthropology</i> , v. also Eth.
Mansfield, W. S., M.A. Emm Lectr	..... Frazer Lectr.
Line, J., M.A. Emm. Lectr.	Sayce, R. U. (Mat. Cult and Phys.
Yule, G. U., M.A. Joh. Lectr.	A) Lectr.
Taylor, E. McK., Ph.D. Joh. „	<i>Arabic</i> , v. Oriental
Woodman, H. E., M.A. Down Demr	<i>Archæology</i> , v. also Classical A., Classics, Orient.
Garner, F. H., M.A. Demr	Minns, E. H., Litt D Pemb.
Newman, L. F., M.A. Cath Demr	Disney Prof.
<i>Agric. Botany</i> [Prof	Burkatt, M. C., M.A. Trin Lectr.
Biffen, Sir Rowland H., M.A. Cath.	de Navarro, J. M., M.A. Trin Lectr.
<i>Agric. Physiology</i> [Reader.	Phillpotts, Bertha S., M.A. Girton Lectr.
Marshall, F. H. A., Sc.D. Chr.	<i>Architecture, School of</i> [Master.
<i>Anatomy</i> , v. also Zool.	Fyfe, T., M.A. Pemb., F.R.I.B.A. Lectr
Wilson, J. T., M.A. Joh. Prof	Hughes, H. C., M.A. Pet., A.R.I.B.A. Lectr.
Duckworth, W. L. H., M.D., Sc.D. Jes. (Human A.) Reader	Pite, B., Hon. M.A. Cai, F.R.I.B.A. Lectr.
Shearer, C., Sc.D. Cla. (Embryo- logy) Lectr.	Cosens, C. R. G., M.A. King's Lectr.
Appleton, A. B., M.D. Down. „	<i>Art</i> [Slade Prof. of Fine Art.
Reid, D. G., M.A. Trin. Demr.	Prior, E. S., M.A. Cai
Green, H. L. H. H., M.A. Sid Demr	Checkley, G.; Tomlinson, H., M.A. Chr. Demrs.
Manton, Miss S. M., M.A. Girton Demr. in Comparative A.	<i>Assyriology</i> , v. Oriental Langs.

*Astronomy* [Plumian Prof.]

Eddington, A. S., M.A. Trin.

Smart, W. M., M.A. Trin.

Chief Asst &amp; Adams Astronomer.

Green, H. E. Second Asst.

*Astron. & Geom.* [Lowndean Prof.]

Baker, H. F., Sc D. Joh

*Astrophysics* [Prof]

Stratton, F. J. M., D S O., M A

Carroll, J. A., M A., Ph D Sid

Lectr &amp; Asst Dir

Wormell, T. W., B A Joh

Obs in Meteorological Phys

Baxandall, F. E., A R C Sc

1st Sen. Solar Physics Observer

Butler, C. P., A R C Sc

2nd Sen Solar Physics Observer.

Moss, W., Junior Observer

*Bibliography* [Sandars Reader.]

McKerrow, R. B., Litt D Trin

*Bio-Chemistry*

[Sir W. Dunn Prof]

Hopkins, Sir F. G., M A Trin

Haldane, J. B. S., M A Trin.

Sir W. Dunn Reader

Hele, T. S., M D Emm Lectr

Onslow, Hon Mrs., M A. Newn-

ham Lectr

Dixon, M., Ph D Emm Lectr

Needham, N. J. T. M., M A., Ph D

Cai Demr

*Biology* [Quick Prof]Nuttall, G. H. F., Sc D Magd (Dir.  
of Molteno Inst. of *Parasitology*)

Keilin, D., M A Magd.

Lectr. (*Parasitology*) and Asst

Brindley, H. H., M A Joh.

*Botany*, v also Agric

Seward, A. C., Sc.D. Down. Prof

Blackman, F. F., M A Joh.

Reader.

Thomas, H. H., Sc D Down.

Lectr.

Brooks, F. T., M A Emm Lectr

Godwin, H., Ph D Cla Demr.

Harris, T. M., M.A Chr Demr.

Briggs, G. E., M.A Joh. Lectr.

*Chemistry*, v also Bio- and  
Phys. C. and Med. (Prev.)

Pope, Sir Wm. J., K.B.E., M A

Sid Prof

Mann, F. G., Ph.D. Down.

Asst. to Prof.

McCombie, H., M.A. King's

Lectr.

Dootson, F. W., M.A. Trin. H.

Lectr. and Demr.

Palmer, W. G., M A. Joh Lectr

Berry, A. J., M A. Down. Demr.

Norrish, R. G. W., Ph D Emm

Demr.

Scarborough, H. A., M A Cla.

Demr.

*Chemistry, Organic*

Mills, W. H., M A. Jes. Lectr

*Classical Archæology*

Cook, A. B., Litt D Qu Reader

*Classics*

Robertson, D. S., M A Trin (Greek)

Reg Prof

Housman, A. E., M A Trin

(Latin) Kennedy Prof.

Cornford, F. M., M A. Trin.

Biereton-Laurence Reader.

*Lecturers*

Angus, C. F., M A Trin H

Bacon, Miss J. R., M A Girton.

Campbell, S. G., M A Chr (*Epi-*  
*graphy and Dialects*)

Charlesworth, M. P., M A. Joh.

Duke, W. H., M A Jes

Edmonds, J. M., M A Jes

Glover, T. R., M A Joh (*Ancient*  
*History*)

Gow, A. S. F., M A Trin.

Greenwood, L. H. G., M A. Emm

Hackforth, R., M A. Sid

Hallward, B. L., M A. Pet.

Jones, W. H. S., Litt D. Cath

Lawson, J. C., M.A. Pemb.

Morris, G. G., M A. Corp.

Nock, A. D., M A Cla.

Rackham, H., M A Chr.

Robertson, D. S., M.A. Trin.

Scott, J. E., M A. Cai

Seltman, C. T., M A Qu.

Sheppard, J. T., M A. King's.

Sikes, E. E., M.A. Joh.  
 Sills, H. H., M.A. King's.  
 Vernon-Jones, V. S., M.A. Magd.

*Divinity*, v. also Orient Langs  
 Creed, J. M., B.D. Joh.

Ely Prof.  
 Barnes, W. E., D.D. Pet.

Hulsean Prof.  
 Bethune-Baker, J. F., D.D. Pemb.

Lady Margaret's Prof  
 Burkitt, F. C., D.D. Trin.

Norrisian Prof  
 Nairne, A., D.D. Jes. Reg. Prof.

Whitney, J. P., D.D. Emm  
 Dixie Prof (Eccles. Hist.).

Rogers, T. G., B.D. Dublin  
 Lectr. (Past Theol.)

Scott, C. A. A., D.D. Joh  
 Hulsean Lectr

Other Lecturers.

Burnaby, H., M.A. Emm.  
 Chase, G. A., M.A. Trin. H.

Gardner-Smith, P., M.A., B.D. Jes.  
 Hoskyns, Sir E. C., M.A. Corp.

Marsh, F. S., M.A. Selw  
 Smith, B. T. D., M.A. Sid.

Telfer, W., M.A. Cla  
 Tennant, F. R., D.D. Trin.

Valentine-Richards, A. V., M.A.  
 Chr.

Oman, J. W., M.A. Qu (Stanton  
*in Philos. of Religion*).

Wood, C. T., B.D. Qu.

Lady Margaret's Preacher  
 Pollock, B., D.D. Trin

*Economics and Politics*, v. also  
 Pol Econ.

Lecturers:

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 Hist.).

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Evans, I. L., M.A. Joh.

Guillebaud, C. W., M.A. Joh

Robertson, D. H., M.A. Trin  
 (*Girdlers'*).

Sargant Florence, P., M.A. Cai.

Shove, G. F., M.A. King's.

Sraffa, P.

Tappan, Miss M., Girton.

Thatcher, W. S., M.A.

*Education*

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Asst. Lectrs:

Williamson, R. S., M.A. Chr.

Meldrum, R., M.A. Joh.

*Engineering*, v. *infra*

*English*, v. also Anglo-Saxon

Quiller-Couch, Sir A. T., M.A. Jes

K. Ed. VII. Prof.

Lecturers:

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Bennett, H. S., M.A. Emm

Coulton, G. G., M.A. Joh.

Downs, B. W., M.A. Chr.

Forbes, M. D., M.A. Cla

Henn, T. R., M.A. Cath

Lucas, F. L., M.A. King's.

Murray, Miss H. M. R., Girton.

Potts, L. J., M.A. Qu

Richards, I. A., M.A. Magd.

Tillyard, E. M. W., M.A. Jes.

Welsford, Miss E. E. H., M.A.

Newn

*Entomology, Advanced and  
 Economic*

Eastham, L. E. S. Lectr.

*Estate Management*

Weller, E. P. Lectr

*Ethnology*

Hodson, T. C. Reader.

*Forestry*

Dawson, W., M.A. Cai. Reader

Boulton, E. H. B., M.A. Cath.

Lectr.

Cox, H. A., M.A. Gurney Lectr.

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Stewart, H. F., D.D. Trin Reader.

Beves, D. H., M.A. King's Lectr.

Chaytor, H. J., M.A. Cath. Lectr.

*Genetics* [Arthur Balfour Prof.

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*Geodesy*

Lenox-Conyngham, Col. Sir G. P.,

M.A. Trin.

Reader.

*Geography*

Debenham, F., M A. Cai Reader.  
 Manning, B. L., M.A. Jes. Lectr.  
 Steers, J. A., M.A Cath Demr.  
 Willis, Miss M S, M A. Girton  
 Demr.

*Geog., Econ.*

Stanners, R. W., M A. Cai. Lectr.

*Geology*, v also Mineral, Palæozoö, Petrol.

Marr, J. E., Sc D Joh.

Woodwardian Prof

King, W. B R, O B E, M A  
 Magd Demr. and Asst.

Tilley, C. E, Ph D Emm Demr

Nicholas, T. C, O B.E, M.A Trin.

Lectr.

Rastall, R H. Sc D Chr. (Econ.  
 G) Lectr.

Elles, Miss G. L., Newnham „

*German* [Schroder Prof.

Breul, K H, Litt D King's

Bennett, E. K, M.A. Cai. Lectr.

*Hebrew*, v Oriental*History**Lecturers*

Bemans, E A, M A Joh

Brooke, Z N., M.A Cai

Butler, Sir G, M A Corp

Butler, J. R. M, M A Trin

Clapham, J. H, Litt.D. King's.

Elliott, C. A, M A Jes

Jones, Miss M G, M A Girton

Jordan, W. E, M A. Selw.

Laffan, R. G. D, M A Qu.

Lapsley, G. T, M A. Trin.

Laurence, R V., M A Trin

Passant, E J., M A. Sid

Perrett, G B, M A. Selw.

Pickthorn, K W. M, M A. Corp.

Reddaway, W. F, M A. King's.

Salter, F. R., M A. Magd.

Simpson, F. A, M A Trin.

Vellacott, P. C, M A. Pet

Welbourne, E, M A Emm

Winstanley, D. A, M A. Trin.

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Clapham, J. H., Litt D., C.B.E  
 King's Prof.

*History, Indian* [Lectr

Gaskoin, C. J. B., M.A. Jes.

*History, Modern* [Reg. Prof

Trevelyan, G. M, M A Trin

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 Litt.D. Pet. Reader.

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Rose, J. H., Litt D. Chr.

Vere Harmsworth Prof.

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Pettoello, Signor D, Dr. Phil.

Torino Teacher.

Bullough, E, M A. Cai Lectr.

Butler, Miss K T., Girton Lectr.

*Laws of England*

Hazeltine, H. D, Litt D Down.

Downing Prof

*Law**Lecturers*

Barnes, H., M A., LL.B. Jes.

Duff, P W, M A Trin

Goodhart, A L, M.A., LL M. Corp.

McNair, A D, LL D Cai.

Turner, J W C, M A, LL B,  
 Trin H

Wade, E C S., M A, LL M Cai

*Law, Civil*

Buckland, W. W., M.A, LL.D.

Cai. Reg. Prof.

*Law, English*

Winfield, P H, LL D Joh

Rouse Ball Prof

Hollond, H A, O.B E, M A. Trin.

Reader.

*Law, Indian*

Macleod, R. H, M.A. Cai. Lectr.

*Law, Internat.*

Higgins, A. Pearce, C.B E., LL.D.,

K.C. Down Whewell Prof

*Literature*

Abercrombie, L., M A., Manc.

Leslie Stephen Lectr.

*Logic*, v Philos.



*Mathematics*

Larmor, Sir Joseph, M.A., Hon  
Sc D. Joh. Lucasian Prof.  
Jobson, E. W., Sc.D. Chr. (Pure  
M.) Sadleirian Prof.

Littlewood, J. E., M.A. Trin  
Rouse Ball Prof

## Lecturers :

Besicovitch, A. S., M.A.

Cayley Lectr  
Birtwistle, G., M.A. Pemb  
Cunningham, E., M.A. Joh.  
Fowler, R. H., M.A. Trin.

Stokes Lectr.

Harrison, W. J., M.A. Cla  
Jeffreys, H., M.A. Joh  
Knox-Shaw, T., M.A. Sid  
Mayall, R. H. D., M.A. Sid.  
Munro, A., M.A. Qu.  
Newman, M. H. A., M.A. Joh.

Pars, L. A., M.A. Jes.

Pollard, S., M.A. Trin

Ramsey, A. S., M.A. Magd

Ramsey, F. P., B.A. King's

Room, T. G., M.A. Joh.

Steen, S. W. P., M.A. Chr

Southwell, R. V., M.A. Trin.

Stratton, F. J. M., M.A. Cai.

Swain, Miss L. M., M.A., Newnham.

White, F. P., M.A. Joh

Wood, P. W., M.A. Emm.

Lamb, H., M.A., Hon Sc D Trin.

Rayleigh Lectr.

*Medicine and Surgery, v. infra**Metallurgy* [Goldsmiths' Reader.

Heycock, C. T., M.A. King's

*Meteorology, v. Astrophysics**Military Studies*

Costello, Br.-Gen. E. W., V.C.,  
C.M.G., D.S.O. Director.

*Mineralogy*

Hutchinson, A., O.B.E., M.A.  
Pemb. Prof.

Wooster, W. A., Ph.D. Pet. Demr.

Phillips, F. C., M.A., Ph D. Corp.  
Demr

*Moral Science, v. Philos.**Music* [Prof

Dent, E. J., M.A., Mus.B. King's

Naylor, E. W., Mus.D. Emm.

Lectr.

Rootham, C. B., Mus.D. Joh.

Lectr. (Harmony and  
Counterpoint).

*Oriental Langs., v. infra**Palæography, v. Classics**Palæozoology*

Woods, H., M.A. Joh. Lectr

*Parasitology, v. Biol.**Petrology*

Harker, A., M.A. Joh. Reader.

*Philology, Comparative*

Giles, P., Litt D. Emm. Reader

*Philosophy, Mental, and Logic*

Moore, G. E., Litt.D. Trin. Prof.

*Philos., Moral, v. also Psychol.,  
Religion*

Sorley, W. R., Litt.D. King's  
Knightbridge Prof.

Johnson, W. E., M.A. King's  
Sidgwick Lectr.

Broad, C. D., Litt D. Trin. Lectr.

Braithwaite, R. B., M.A. King's  
Lectr

*Philos., Natural*

Wilson, C. T. R., M.A. Sid.

Jacksonian Prof.

*Physical Chem.*

Lowry, T. M., C.B.E., M.A.  
Trin. H. Prof.

Rideal, E. K., M.A. Trin. H.

H. O. Jones Lectr.

*Physics, v. also Philos., Nat.*

Rutherford, Sir Ernest, O.M., M.A.,  
Hon. Sc.D. Trin.

Cavendish Prof. of Expl. P.

Thomson, Sir J. J., O.M., M.A.,  
Hon. Sc.D. Trin. Prof.

Searle, G. F. C., Sc.D. Pet. (Expl.  
P.) Lectr. & Demr.

Wood, A., M.A. Emm. Lectr.

Thirkill, H., M.A. Clare Lectr.

Bedford, T. G., M.A. Sid.

Bernal, J. D., M.A. Emm. (Struct.  
Crystallography) Lectr.

Ellis, C. D., Ph.D. Trin. Lectr.

Blackett, P. M S., M.A King's Demr  
 Dymond, E. G , M A Joh Demr.  
 Ratchffe, J. A , M A. Sid Demr  
 Hartree, D R , M A , Ph.D Chr  
 Sleeman, C. M., M.A Qu. Lectr  
 Chadwick, J., Ph D. Cai  
 Asst. Dir. of Radio-  
 active Research  
 Kapitzka, P, Ph D Trin.  
 Asst Dir of Magnetic  
 Research.  
*Physiology*, v also Agric [Prof.  
 Barcroft, J , C.B E., M.A King's  
 Hardy, Sir Wm. B., M.A. Cai.  
 Shore, L. E , M D Joh Lectr.  
 Roughton, F J W , Ph D Trin  
 Lectr in Physico-chemi-  
 cal Aspects of P  
 Adrian, E. D , M D. Trin Lectr  
 Anrep, G , M A Lectr  
 Tunnichffe, H E , M A. Cai Demr.  
*Political Economy*, v. also Econ.  
 Pigou, A. C , M.A. King's Prof  
*Political Science*  
 Barker, E , Litt D Pet Prof  
*Portuguese*, v. Spanish  
*Psychology, Exper.*, v. also Med -  
 Psych.  
 Bartlett, F C , M.A. Joh. (Dir. of  
 the Psych Lab) Reader.  
 Banister, H , Ph.D Joh. Lectr  
*Romance* [Reader  
 Braunholtz, E. G. W., M.A King's  
*Russian*  
 Goudy, A. P , M.A. Clare Lectr.  
*Sanskrit*, v. Oriental  
*Spanish* [Reader.  
 Kirkpatrick, F. A., M.A. Trin  
 Alonso, Don D Teacher  
 Salinas, Don. P.  
 Norman Maccoll Lectr.  
 (S and Portuguese).  
 Barker, J. W., Ph.D. Down. Lectr.  
*Statistics* [Lectr.  
 Yule, G Udny, C.B.E., M A Joh.

*Theology*, v. Div.  
*Tropical Agriculture*, v. Agric.  
*Zoology*, v. also Animal, Entom.,  
 Med. Entom., Palæoz.  
 Gardiner, J. S., M A Cai. Prof.  
 Borradaile, L. A., Sc.D. Selw.  
 Lectr  
 Potts, F. A , M A. Trin H Lectr  
 Saunders, J T., M A. Chr. (Animal  
 Morph) Lectr.  
 Gray, J., M.A. King's  
 Lectr. (Experimental Z ).  
 Brindley, H. H , Joh. Demr.

### Engineering

#### Lecturers :

Bird, A L , M A. Pet  
 Browne, A. D , M.A Qu.  
 Davenport, A H., M A Sid  
 Dykes, F J , M A Trin  
 Farren, W S , M A Trin  
 Hayes, R A , M A Trin H  
 Landon, J W., M A Cla (Me-  
 chemical E).  
 Lubbock, R , M.A Pet  
 Moullin, E B , M A Down.  
 Peake, A H , M A Joh.  
 Peel, T , M A Magd  
 Phear, H W , M A Cai  
 Spittle, J. T , M A. Pemb  
 Turner, L B , M.A King's.  
 Womersley, W. D , M A Emm.  
 Woodward, W E , M A Trin.  
 Wyatt, T. C., M A Chr.  
 Demrs  
 Portway, D , M A Cath  
 Sanders, T R B , M A Corp.  
*Aeronautical Engineering*  
 Jones, B. M., M.A. Emm.  
 F. Mond Prof.  
*Electrical Engineering*  
 Lamb, C. G., M.A., Sc.D. Reader  
*Mechanism and Appl. Mechanics*  
 Inghs, C. E., O.B E , M.A. King's  
 Prof  
*Thermodynamics*  
 Lees, S., M.A. Joh.  
 Hopkinson Lectr.

Medicine (for subjects of the first  
2 yrs.—Anat., etc., v. *supra*)

*Hygiene*, v. Prev. Med.

*Medical Chemistry*

Cole, S. W., M.A. Trin. Lectr.

*Medical Entomology*

Warburton, C., M.A. Chr. Demr

*Medical Radiology & Electrology*

Barclay, A. E., M.D. Chr Lectr

Stead, G., M.A. Cla. (Physics as  
applied to M.R.) Lectr.

*Medicine*

Bradbury, J. B., M.D. Down

Downing Prof.

Holmes, E. G., M.A., M.B.,

B Chr Chr

Asst to Prof of Med

*Mental Pathology*, v. Psycho-  
path.

*Pathology*

Dean, H. R., M.D. Trin. H. Prof.

Cobbett, L., M.D. Trin Lectr

Murray, E. G. D., M.A. Chr. „

Webb, R. A., Ph.D. Pet Demr.

*Pathology, Special*

Florey, H. W., Ph.D. Cai.

Huddersfield Lectr

*Pharmacology* [Reader.

Dixon, W. E., M.A. Down. (As-  
sessor to Reg. Prof. Physic)

*Physic*

Rolleston, Sir Humphry D., Bart.,

K.C.B., M.D. Joh. Reg. Prof.

*Preventive Medicine* [Reader.

Graham-Smith, G. S., M.D. Pemb

Purvis, J. E., M.A. Corp.

Lectr. (*Chemistry and Physics*)

*Psychopathology* [Lectr.

MacCurdy, J. T., M.A. Corp.

*Surgery*

Roderick, H. B., O.B.E., M.D.,  
M.Chir. Emm. Lectr.

Members of Hospl. Staff (not in-  
cluded under above subject-

headings) approved as Univ.

Teachers: J. Aldren Wright,

M.D. Sid., J. Griffiths,

C.M.G., M.A., M.Chir. King's;

A. Cooke, M.A., M.B. Trin;

G. S. Haynes, M.D. King's;

W. H. Bowen, M.S., C. H.

Budd, M.A., B.M. Cla., H. B.

Roderick, M.D. Emm; L. B.

Cole, M.D. King's

### Oriental Languages

Cook, S. A., Litt.D. Cai Lectr.

*Arabic* [Sir T. Adams Prof.

Nicholson, R. A., Litt.D. Trin.

Bevan, A. A., M.A. Trin.

Lord Almoner's Prof

'Afifi, Abu'l-'Alá Lectr.

*Aramaic*

McLean, N., M.A. Chr. Lectr.

*Assyriology* [Yarrow Lectr.

Winckworth, C. P. T., M.A. Chr.

*Bengali*

Samman, H. F., Hon. M.A. Emm.

Lectr.

*Burmese*

Cooke, A. G., M.A. Emm Lectr.

*Chinese*

Giles, H. A., M.A. Trin Prof.

*Hebrew*

[Reg. Prof.  
Kennett, R. H., D.D. Qu.

*Hindi, Urdu and*

[Lectr.  
Phillott, Lt.-Col. D. C., M.A. Cai.

*Marathi*

Harrison, Lt.-Col. H. Lectr.

*Persian*

Levy, R., M.A. Chr. Lectr.

*Sanskrit*

Rapson, E. J., M.A. Joh. Prof

Rouse, W. H. D., Litt.D. Chr.

(S. and Pali) Lectr.

*Tamil*

Wyatt, J. L., M.A. Chr. Lectr.

*Turkish*

Zâfir Efendi, 'Abdul Qâdir Lectr.

**University Extension**

Stipendiary Lecturers, appointed  
by Board of Extra-mural  
Studies: P. L. Babington,  
M.A., LL.B. Joh (James  
Stuart Lecturer), G. P. Bailey,

Hon. M.A. (James Stuart  
Lecturer), I. C. Hannah,  
M.A. Trin, D. R. Hardman,  
B.A. Chr, E. Sewell Harris,  
M.A. Joh., and B. Willey,  
M.A. Pet.

**THE COLLEGES**

**CHRIST'S COLLEGE.** Founded 1505.

Hobson, Prof. E. W., M.A., Sc.D.,  
F.R.S.  
Rackham, H., M.A.  
Haddon, A. C., M.A., Sc.D., F.R.S.  
Campbell, S. G., M.A.  
Valentine-Richards, A. V., M.A.  
Marshall, F. H. A., M.A., Sc.D., F.R.S.  
Saunders, J. T., M.A., *Tutor*.  
Downs, B. W., M.A., *Tutor*.  
Grose, S. W., M.A., *Tutor*.

Master—N. McLean, M.A. Fellows :

Wyatt, T. C., M.A.  
Murray, E. G. D., M.A.  
Steen, S. W. P., M.A.  
Steel, A. B., M.A.  
Peck, A. L., M.A.  
Rose, Prof. J. Holland, Litt.D.  
Rastall, R. H., M.A., Sc.D.  
Hartree, D. R., Ph.D.  
Harris, T. M., M.A.

**CLARE COLLEGE.** Founded 1326.  
Fellows :

Fulford, H. W., M.A.  
Wardale, J. R., M.A.  
Wilson, G. H. A., O.B.E., M.A.  
Chadwick, Prof. H. M., M.A., F.B.A.  
Thirkill, H., M.C., M.A., *Tutor*.  
Forbes, M. D., M.A.

Master—W. L. Mollison, M.A., LL.D.

Harrison, W. J., M.B.E., M.A.  
Landon, J. W., M.B.E., M.A.  
Telfer, W., M.C., M.A.  
Priestley, R. E., M.A.  
Nock, A. D., M.A.  
Godwin, H., M.A., Ph.D.

**CORPUS CHRISTI COLLEGE.** Founded 1352. Master—William Spens,  
C.B.E., M.A. Fellows :

Pollock, C. A. E., M.A.  
Butler, Sir Geoffrey, K.B.E., M.A.,  
M.P.  
Pickthorn, K. W. M., M.A., *Senior  
Tutor*.  
Hoskyns, Sir Edwyn C., Bt., M.A.  
Morris, G. G., M.A., *Bursar*.  
Clark-Kennedy, A. E., M.A., M.D.,  
M.R.C.P.  
Goodhart, A. L., M.A., LL.M.

Sanders, T. R. B., M.A.  
Smyth, C. H. E., M.A.  
Butler, R. A., B.A.  
MacCurdy, J. T., M.A. (M.D. Johns  
Hopkins).  
Mynors, H. C. B., B.A., *Assistant  
Tutor*.  
Phillips, F. C., Ph.D.  
Charvet, P. E., B.A.

**DOWNING COLLEGE.** Founded 1800. Master—A. C. Seward, Sc.D.,  
M.A., F.R.S., Prof. of Botany. J. B. Bradbury, M.D., Downing Prof. of Med.;  
H. D. Hazeltine, M.A., Litt.D., F.B.A., Downing Prof. of Laws of England.  
Fellows

Kenny, C. S., LL.D., F.B.A.  
Saunders, J. C., M.A.  
Harris, D. L., M.A.  
Widdicombe, J. H., M.A., *Senior  
Tutor*.  
Amos, A., M.A.

Berry, A. J., M.A.  
Thomas, H. H., M.A., Sc.D.  
Smith, F. B., M.A., C.M.G.  
Whalley-Tooker, H. C., M.A., LL.M.,  
*Tutor*.

EMMANUEL COLLEGE. Founded 1584. Master—Peter Giles, Litt.D., F.B.A., Reader in Comp. Philol. Fellows:

Allcock, W. B., M.A.	Welbourne, E., M.C., M.A., <i>Tutor</i> .
Bennett, G. T., M.A., Sc.D., F.R.S.	Wallace, J. C., M.C., M.A.
Greenwood, L. H. G., M.A.	Line, J., A.F.C., M.A.
Wood, A., M.A., <i>Tutor</i> .	Norrish, R. G. W., Ph.D.
Wood, P. W., M.A., <i>Senior Tutor</i> .	Head, F. W., M.C., M.A.
Whitney, Prof. J. P., M.A., D.D.	Wright, G. J. H., D.S.O., M.A., <i>College Secretary</i> .
Hele, T. S., O.B.E., M.A., M.D., <i>Tutor</i> .	Grave, W. W., M.A., Ph.D.
Jones, Prof. B. M., A.F.C., M.A.	Carslaw, H. S., Sc.D.
Burnaby, H., M.A.	Stoner, E. C., Ph.D.
Gardner, R., M.C., M.A., <i>Bursar</i> .	

GONVILLE AND CAIUS COLLEGE. Founded 1348. Master—J. F. Cameron, M.A. Fellows:

Muir, M. M. P., M.A.	Prior, Prof. E. S., M.A., A.R.A.
Gallop, E. G., M.A.	Okey, Prof. T., M.A.
Buckland, Prof. W. W., M.A., LL.D., F.B.A., <i>President</i> .	Debenham, F., O.B.E., M.A.
Vesey, W. T., M.A.	Cook, S. A., M.A., Litt.D.
Hardy, Sir W. B., M.A., F.R.S.	Chadwick, J., Ph.D., F.R.S.
Gardiner, Prof. J. S., M.A., F.R.S.	Bennett, E. K., M.A.
Punnett, Prof. R. C., M.A., F.R.S.	Tunnichiffe, H. E., M.A.
Stratton, Prof. F. J. M., D.S.O., M.A., <i>Senior Tutor</i> .	Needham, N. J. T. M., M.A., Ph.D.
Wood, Prof. T. B., C.B.E., M.A., F.R.S.	Oakeshott, M. J., M.A.
Brooke, Z. N., M.A.	Deas, H. T., M.A.
McNair, A. D., C.B.E., M.A., LL.D.	Florey, H. W., B.A., Ph.D.
Bullough, E., M.A.	Roberts, H. A., M.A.
Scott, J. E., M.A., M.C.	Schram, O. K., Ph.D.
Phear, H. W., M.A.	Bellerby, J. R.
	Heywood, H. C. L., B.A.

JESUS COLLEGE. Founded 1496. Master—A. Gray, M.A. Fellows:

Watt, J. C., M.A.	Quiller-Couch, Prof. Sir Arthur T., M.A.
Foakes-Jackson, F. J., M.A., D.D.	Nairne, Prof. A., M.A., D.D.
Abbott, E., M.A., <i>Tutor</i> .	Manning, B. L., M.A.
Duckworth, W. L. H., M.A., M.D., Sc.D.	Pars, L. A., M.A.
Duke, W. H., M.A.	Barnes, H., M.A., LL.B.
Elliott, C. A., M.A., <i>Tutor</i> .	Gardner-Smith, P., M.A.
Mills, W. H., M.A., F.R.S.	Sinker, A. P., B.A.

KING'S COLLEGE. Founded 1441. Provost—A. E. Brooke, M.A., D.D. Fellows:

Hollingworth, H., M.A.	Reddaway, W. F., M.A.
Phillpotts, S. B., M.A.	Sills, H. H., M.A.
Grant-Ives, C. E., M.A.	Barcroft, Prof. J., C.B.E., M.A., F.R.S.
Tilley, A. A., M.A.	Inghs, Prof. C. E., O.B.E., M.A.
Macaulay, W. H., M.A.	Sorley, Prof. W. R., M.A., Litt.D., F.B.A.
Berry, A., O.B.E., M.A.	Johnson, W. E., M.A., F.B.A.
Dickinson, G. L., M.A.	Pigou, Prof. A. C., M.A., F.B.A.
Richmond, H. W., M.A., F.R.S.	Sheppard, J. T., M.B.E., M.A.
Wedd, N., M.A.	
Heycock, C. T., M.A., F.R.S.	

Clapham, J. H., C B.E., M A., Litt.D.,  
F.B.A.

Keynes, J. M., C B., M A.

Adcock, Prof. F. E., O B.E., M.A.

Gray, J., M.A., M C

Birch, F. L., O B.E., M A.

Milner-White, E., D.S O., M A

McCombie, H., D.S O., M A, M.C.

Turner, L. B., M A.

Durnford, H G E, M.A., M.C.

Lucas, F. L., M A

Mann, A. H, M A.

Adair, G. S., M.A.

Blackett, P. M. S., M.A.

Ord, B., Mus B, M A

Scholfield, A. F., M.A.

Beves, D. H., M A

Braithwaite, R. B, M A.

Ramsey, F. P., M.A.

Penrose, A. P. D., M.A.

Shove, G. F, M.A.

Stockdale, D, Ph D, M A.

Dent, Prof. E. J., M.A., Mus.B.

Forster, E. M, M A.

Thomson, G. D, B A.

Hall, P, B A

Rylands, G. H. W, M A.

Breul, Prof. K. H, M A, Litt.D.

Balfour, R. E, B.A. [B Chir, *Tutor*.

Wollaston, A. F. R., D.S.C., M A,

MAGDALENE COLLEGE. Founded 1542. Master—A. B. Ramsay, M.A.  
Fellows:

Peskett, A. G., M A.

Ramsey, A. S, M A, *President*

Vernon Jones, V.S., M A., *Senior Tutor*.

Nuttall, Prof. G. H. F, M.A., Sc.D.,  
F.R.S.

Peel, T, M A.

Gaselee, S, C.B E., M.A.

Salter, F. R., M.A., *Tutor*.

Morshead, O. F., D.S O, M.A.

King, W. B. R, O B.E, M A.

Clark, F. H. H., M A.

Richards, I. A., M A.

Turner, F. McD. C, M A.

Scott, F. R. F, M A, *Tutor*.

PEMBROKE COLLEGE. Founded 1347. Master—Prof. A. Hutchinson,  
O B.E., M A., F.R.S. Fellows:

Whibley, L., M A.

Bethune-Baker, Prof. J. F., M A,  
D.D, F B A.

Lawson, J. C., O B.E, M A, *Tutor*

Birtwistle, G, M A.

Comber, H. G., D.S O, M A.,  
*Treasurer*.

Minns, Prof. E. H, M.A., Litt.D,  
F B A.

Pennell, V. C., M A, M B., B.Chir.,  
F R C S

Spittle, J. T., O B.E., M A.

Attwater, A. L, M A., *Librarian*.

McClelland, N. P. K. J. O'N., M A.,  
*Bursar*.

Wynn, H. E, M A, *Dean*.

Dixon, P. J., B.A.

King, B. E, B A

PETERHOUSE. Founded 1284. Master—Rt. Hon. Lord Chalmers, P.C,  
G.C.B., M.A., LL.D, F.B A. Fellows:

Dickson, J. D. H., M.A.

Walker, T. A., M A, LL.D.

Barnes, Prof. W. E., M.A., D D

Temperley, H. W. V, O B.E., M A,  
Litt.D., F.B.A.

Vellacott, P. C., D.S O., M A, *Tutor*.

Lubbock, R., M.A.

Francis, E. C., M A.

Gillett, C. S, M A., *Dean*.

Butterfield, H, M A

Hallward, B. L, M A.

Barker, Prof. E, Litt.D.

Middleton, H. S, M.A., Mus B.

Bertram, Sir Thomas Anton, M A.,  
C.B.E., K C., *Bursar*

QUEENS' COLLEGE. Founded 1448. President—T. C. Fitzpatrick, D D  
Fellows:

Gray, J. H., M A.

Kennett, Prof. R. H., M.A., D.D.

Munro, A., M.A., *Bursar*

Wood, C. T., M.A., B.D.

Cook, A. B., M.A., Litt D.

Laffan, R. G. D, M.A.

Sleeman, C. M., M A., *Tutor*.

Browne, A. D, M.A., *Tutor*.

Potts, L. J., M A

Venn, J. A., M.A.

ST. CATHARINE'S COLLEGE. Founded 1473. Master—F. M. Rushmore, M.A. Fellows:

Carr, E. T. S., M.A.  
Jones, W. H. S., M.A., Litt.D.,  
*President*  
Biffen, Prof. Sir Rowland H., M.A.,  
F.R.S.  
Chaytor, H. J., M.A., *Senior Tutor*.

Newman, L. F., M.A., *Asst. Tutor*.  
Portway, D., M.A., *Asst. Tutor*.  
Withers, J. J., C.B.E., M.A., M.P.  
Steers, J. A., M.A.  
Henn, T. R., M.A.

ST. JOHN'S COLLEGE. Founded 1511. Master—Sir R. Forsyth Scott, M.A. Fellows:

Stevens, A. J., M.A.  
Heitland, W. E., M.A.  
Webb, R. R., M.A.  
MacAlister, Sir Donald, Bart., K.C.B.,  
M.A., M.D.  
Larmor, Prof. Sir Joseph, M.A., Hon  
Sc.D., F.R.S.  
Marr, Prof. J. E., M.A., Sc.D., F.R.S.  
Harker, A., M.A., F.R.S.  
Tanner, J. R., M.A., Litt.D.  
Baker, Prof. H. F., M.A., Sc.D., F.R.S.  
Shore, L. E., O.B.E., M.A., M.D.  
Sikes, E. E., M.A., *President*.  
Blackman, F. F., M.A., F.R.S.  
Glover, T. R., M.A.  
Ward, J. T., M.A.  
Foxwell, H. S., M.A., F.B.A.  
Benians, E. A., M.A., *Tutor*.  
Rapson, Prof. E. J., M.A.  
Cunningham, E., M.A.  
Jeffreys, H., M.A., F.R.S.  
Rootham, C. B., M.A., Mus.D.  
Palmer, W. G., M.A.  
Bartlett, F. C., M.A.  
Creed, Prof. J. M., M.A., B.D.  
Coulton, G. Gordon, M.A.  
Lees, S., M.A.

Prior, Prof. O. H. P., M.A.  
Engledow, F. L., M.A.  
White, F. P., M.A.  
Wilson, Prof. J. T., M.A., F.R.S.  
Briggs, G. E., M.A.  
Wordie, J. M., M.A., *Tutor*.  
Winfield, Prof. P. H., LL.M., LL.D.  
Yule, G. U., C.B.E., M.A., F.R.S.  
Charlesworth, M. P., M.A., *Tutor*.  
Howard, Sir H. F., C.S.I., K.C.I.E.,  
M.A.  
Raven, E. E., M.A.  
Arundell, D. D., M.A.  
Evans, I. L., M.A.  
Newman, M. H. A., M.A.  
Rolleston, Prof. Sir Humphry D.,  
Bart., K.C.B., M.A., M.D.  
Previté-Orton, C. W., M.A.  
Dymond, E. G., M.A.  
Constable, F. H., M.A., Ph.D.  
Room, T. G., M.A.  
Sinclair, T. A., M.A.  
Guillebaud, C. W., M.A., *Tutor*.  
Boys-Smith, J. S., M.A.  
Noble, P. S., M.A.  
Divac, P. A. M., Ph.D.  
Wade, E. C. S., M.A., LL.M.

SIDNEY SUSSEX COLLEGE. Founded 1596. Master—G. A. Weekes, M.A. Fellows:

Robson, H. C., M.A.  
Mayall, R. H. D., M.A.  
McNeile, A. H., M.A., D.D.  
Pope, Prof. Sir William J., K.B.E.,  
M.A., F.R.S.  
Knox-Shaw, T., M.A., *Tutor*.  
Hackforth, R., M.A.

Wilson, Prof. C. T. R., M.A., F.R.S.  
Smith, B. T. D., M.A.  
Passant, E. J., M.A.  
Davenport, A. H., M.A.  
Green, H. L. H. H., M.A.  
Ratchiffe, J. A., M.A.  
Dee, P. I. (Research Fellow).

TRINITY COLLEGE. Founded 1546. Master—Sir Joseph J. Thomson, O.M., Hon. Sc.D., F.R.S. (Prof. of Physics). Fellows:

Kirkpatrick, Very Rev. A. F., M.A.,  
D.D.  
Boughey, A. H. F., M.A.

Hicks, R. D., M.A.  
Glazebrook, Sir Richard T., K.C.B.,  
M.A., F.R.S.

- Frazer, Sir James G., O.M., M.A.,  
Litt.D., F.B.A., F.R.S.  
Parry, R. St. J., M.A., D.D.  
Duff, J. D., M.A.  
Whitehead, A. N., M.A., Sc.D., F.R.S.  
Bevan, Prof. A. A., M.A., F.B.A.  
Dampier-Whetham, W. C., M.A.,  
F.R.S.  
Capstick, J. W., O.B.E., M.A.  
Innes, H. McL., M.A.  
Fletcher, Sir Walter M., K.B.E.,  
M.A., M.D., Sc.D., F.R.S.  
Cornford, F. M., M.A.  
Harrison, E., M.A.  
Laurence, R. V., C.V.O., M.A., *Tutor*.  
Lapsley, G. T., M.A., *Tutor*.  
Winstanley, D. A., M.A., *Tutor*.  
Dykes, F. J., M.A., *Tutor*.  
Eddington, Prof. A. S., M.A., F.R.S.  
Littlewood, J. E., M.A., F.R.S.  
Newall, Prof. H. F., M.A., F.R.S.  
Hollond, H. A., D.S.O., O.B.E., M.A.,  
LL.M.  
Robertson, D. S., M.A.  
Hopkins, Prof. Sir F. Gowland, M.A.,  
F.R.S.  
Housman, Prof. A. E., M.A.  
Simpson, F. A., M.A.  
Tennant, F. R., M.A., D.D.  
Butler, J. R. M., M.V.O., O.B.E.,  
M.A.  
Adrian, E. D., M.A., M.D., F.R.S.  
Fowler, R. H., M.A., F.R.S.  
Robertson, D. H., M.A.  
Burnaby, J., M.A.  
Stewart, H. F., M.A., D.D.
- Rutherford, Prof. Sir E., O.M., M.A.,  
F.R.S.  
Taylor, G. I., M.A., F.R.S.  
Nicholas, T. C., O.B.E., M.A.  
Pollard, S., M.A.  
Aston, F. W., Sc.D., F.R.S.  
Lenox-Conyngham, Sir Gerald P.,  
M.A., F.R.S.  
Ellis, C. D., Ph.D.  
Pearson, Prof. A. C., Litt.D.  
Kitson-Clark, G. S. R., M.A.  
Broad, C. D., M.A., Litt.D.  
de Navarro, J. M., M.A.  
Roughton, F. J. W., M.A., Ph.D.  
Dean, W. R., M.A.  
Moore, Prof. G. E., M.A., Litt.D.,  
F.B.A.  
Gow, A. S. F., M.A.  
Southwell, R. V., M.A., F.R.S.  
Duff, P. W., M.A.  
Chadwick, J. A., B.A.  
Evennett, H. O., B.A.  
Kapitza, P., Ph.D.  
Burkitt, Prof. F. C., D.D., F.B.A.  
Higgins, Prof. A. P., C.B.E., LL.D.,  
F.B.A., K.C.  
Nicholson, Prof. R. A., Litt.D., F.B.A.  
Rattenbury, R. M., B.A.  
Thomas, L. H., Ph.D.  
Trevelyan, Prof. G. M., M.A.  
Runciman, J. C. S., M.A.  
Sandbach, F. H., M.A.  
Cross, A. G. N., B.A.  
Winnington-Ingram, R. P., B.A.  
de Bruyne, N. A., B.A.  
Edge, W. L., B.A.

TRINITY HALL. Founded 1350. Master—H. Bond, LL.D. Fellows :

- Angus, C. F., M.A., *Librarian*.  
Potts, F. A., M.A., *Asst. Tutor*.  
Chase, G. A., M.A., *Tutor and Dean*.  
Hayes, R. A., M.A.  
Cooper, C. F., M.A., *Bursar and*  
*Steward*  
Oliver, D. T., LL.M.
- Rideal, E. K., M.B.E., M.A.  
Rendell, W. R., M.A.  
Dean, Prof. H. R., M.D.  
Crawley, C. W., M.A., *Asst. Tutor and*  
*Prælector*.  
Turner, J. W. C., M.A.

SELWYN COLLEGE. Founded 1882. Master—G. E. Newsom, M.A.  
Fellows :

- Jordan, W. E., M.A., *Vice-Master and*  
*Tutor*.  
Borradaile, L. A., M.A., Sc.D.,  
*Tutor*.  
Williams, W. N., M.A., LL.B.
- Marsh, F. S., M.A., *Tutor*.  
Perrett, G. B., M.A., *Bursar*.  
Durrant, P. J., M.A.  
Blyth, A. C., M.A.  
Woodward, F. H., B.A.

NON-COLLEGIATE STUDENTS : FITZWILLIAM HOUSE. Established 1869.



Censor—W. S. Thatcher, M.A.; Asst. Censor, Bursar and Chaplain—W. Harvey, M.A.

Supervisors of Studies. *Agriculture*: S. W. U. Muncey, M.A. *Botany*: A. H. K. Petrie. *Chemistry*: P. J. Durrant, M.A. *Classics*: B. F. C. Atkinson, M.A., Ph.D. *Economics*: J. L. Cohen, M.A. *English*: B. Willey, M.A. *Geography*: C. G. Joseph, M.A. *Geology*: W. B. R. King, O.B.E., M.A. *German*: A. H. J. Knight, M.A. *History*: C. J. B. Gaskoin, M.A. *Law*: C. H. Ziegler, M.A. *Mathematics*: J. J. Welch, M.A. *Mechanical Sciences*: R. S. Ball, M.A. *Medical Studies*: E. G. Holmes, M.A. *Mediæval and Modern Languages*: A. J. Wyatt, M.A.; J. W. Barker, Ph.D. *Moral Sciences*: C. Fox, M.A. *Physics*: G. Stead, M.A. *Theology*: H. Burnaby, M.A. *Zoology*: L. E. S. Eastham, M.A.

#### WOMEN'S COLLEGES recognized by the University:

**GIRTON COLLEGE.** Founded 1869. Mistress—Miss E. H. Major, M.A.

Directors of Studies: F. E. Cave-Browne-Cave, M.A. (Mathematics); J. R. Bacon, M.A. (Classics); E. M. M. Whetnall, Ph.D. Lond. (Moral Sc.); M. B. Thomas, M.A. Dub. (Natural Sc.), M. G. Jones, M.A. (Hist. and Law); K. T. Butler, M.A. (Mod. and Med. Languages), M. Tappan, Ph.D. Columbia (Econs.); H. M. R. Murray, M.A. (English and Philology), Vice-Mistress; Resident Lectrs. in Maths, Mrs. Veitch, M.A.; in History, H. M. Cam, M.A. Lond.; in French, Mlle. Bibas, M.A.; in English, M. G. Lloyd Thomas, M.A. Ox. Supervisor in Zoology. S. M. Manton, M.A. Supervisor in Geography: M. S. Willis, M.A.

Bursar—E. M. Allen, M.A. Secy.—M. Clover, M.A. Junior Bursar—P. K. Leveson, M.A. Librarian and Registrar of the Roll—E. S. Fegan, M.A. Secretary to the Mistress—F. M. Smith, M.A.

**NEWNHAM COLLEGE.** Founded 1871. Principal—Miss J. P. Strachey, M.A.

Tutors—A. B. Dale, M.A. (Old Hall); Mrs. Palmer, M.A. (Peile Hall); M. Steele Smith, M.A. (Clough Hall), Director of Studies in English; E. M. Chrystal, M.A. (Sidgwick Hall).

Other Lectrs.—L. M. Swain, M.A.; M. D. Kennedy, M.A. (Maths.); J. Toynbee, M.A. (Classics); G. L. Elles, D.Sc., T.C.D. (Geol.); G. I. Mackenzie, M.A. Edin. (Physics); H. J. Pybus, M.A. Ox. (Hist.); E. M. Butler, M.A. (Mod. Langs.); E. E. H. Welsford, M.A. (English); M. Tappan, Ph.D. Columbia (Econ.). Bursar—Mrs. Lacy. Registrar of the Roll—E. M. Sharpley.

## GENERAL INFORMATION

CONSTITUTION — COLLEGES — MATRICULATION — ADVANCED STANDING, AFFILIATION—INCORPORATION—INDIAN STUDENTS—TERMS—DEGREES—ARTS—DIVINITY—LAW—MEDICINE—MUSIC—SC.D., LITT.D.—DIPLOMAS—TRAINING FOR CIVIL SERVICES—MILITARY INSTRUCTION—TRAINING OF TEACHERS—TRAINING FOR HOLY ORDERS—RESEARCH STUDENTS—SCHOLARSHIPS — EXPENSES — APPOINTMENTS — WOMEN — LIBRARY — MUSEUMS, ETC.—OBSERVATORY—LOCAL EXAMINATIONS—UNIVERSITY EXTENSION—PUBLICATIONS.

The legislative and executive authority of the Univ. is vested in the REGENT HOUSE, which comprises those Univ. Officers, Fellows of Colls., and others, who are concerned with its teaching and administrative work. A meeting of the Regent House is called a *Congregation*.

There is a right of appeal against a decision of the Regent House, on the

motion of at least one-third of its members, to the SENATE, which consists of graduates of at least seven years' standing from their first term of residence, who have taken a degree of Doctor or Master, or the degree of Bachelor of Divinity. In order to be successful an appeal must be sustained by a statutably prescribed majority. The Senate elects the Chancellor and certain other officers, confers degrees, and holds meetings for the discussion of proposals.

Changes of statute can be made by the Univ. with the approval of the Privy Council, and Parliament.

Many executive duties, and the duty of sanctioning the submission of resolutions (called *Graces*) to a Congregation, are entrusted to the *Council of the Senate*, which is elected by the Regent House.

The titular presiding officer at a Congregation, and the Chairman of the Council, is the Chancellor, who is by custom a non-resident distinguished in public life. His duties are in fact performed by the Vice-Chancellor, who is a Head of a College, appointed annually, in theory by the Regent House, in practice by the Council. It is customary for the Vice-Chancellorship not to be held for more than two years in succession by one person.

There are numerous *Boards* and *Syndicates* for dealing with the various branches of University business. The most important of them are the *General Board of the Faculties*, whose duty it is to advise the Univ. as to educational policy and to supervise and co-ordinate the work of the Faculties, and the *Financial Board*, whose duty it is to supervise the finance of all spending departments.

There are twenty Faculties, a Faculty being a body of teachers in a subject or group of subjects. The organization of teaching, research, and examinations in the various subjects is in the hands of the several Faculty Boards, subject to the control of the General Board. A Faculty Board is in part composed of members elected by the Faculty. The large scientific Faculties are divided into Departments, under a Head, generally a Professor, who is responsible to the Faculty Board for the management of his Department.

The INCOME of the Univ. is derived from the endowments of specific posts, from general endowment (though to a small extent only), from the fees of students, from the statutable contributions of Colls., and from a Treasury Grant.

DISCIPLINE outside the walls of the Colls. is maintained by the Proctors.

The UNIV. TEACHING OFFICERS are the Professors, Readers, Lecturers, and Demonstrators. They, as well as the administrative officers, are required to join in the Federated Superannuation Scheme for Univs. The retiring age is 65 for men, and 60 for women.

The COLLEGES are self-governing corporate bodies distinct from the Univ., owning and managing their separate property, the corporators being the Head and Fellows. Their powers are, however, limited by their Statutes, which cannot be altered by them without notice to the Univ. and approval by the Privy Council. The functions of the Colls. in regard to students are to provide lodging, corporate life, and personal tuition for them, while the function of the Univ. is to provide public instruction by means of lectures and demonstrations, examinations leading to degrees, and facilities for research. The affairs of the Colls. are, however, closely interwoven with those of the Univ. Most of the Fellows of Colls. are Univ. officers, indeed the Statutes require that a certain proportion of the Fellowships of each Coll. shall be held by Univ. officers. And each Coll. is required by Statute to contribute a certain fraction of its income to the funds of the Univ., the scale of contribution being graduated according to the wealth of the College.

The Colls. also maintain Fellowships for the furtherance of research, and a large number of Scholarships. The title of scholar is awarded on purely intellectual grounds, but, as at Oxford, no Coll. emolument other than an allowance for rooms is paid to an undergraduate scholar unless he satisfies the Coll. that his circumstances justify the payment.

**NON-COLLEGIATE STUDENTS** reside in licensed lodgings or in "Houses" recognized by the Non-Collegiate Students' Board. Such students may, by becoming members of Fitzwilliam House, obtain opportunities for taking part in communal life (dining in Hall, belonging to athletic clubs, etc.) similar to those enjoyed by members of Colleges.

**WOMEN STUDENTS.** Subject to the condition that the joint number of women students receiving instruction in the Univ. shall not exceed five hundred, the students of the women's Colls. (Girton and Newnham) are admitted to instruction and examinations in the Univ. and to the titles of degrees. Women who have received, or are qualified to receive, titles of degrees share with men graduates, under the Representation of the People Acts 1918 to 1928, the privilege of voting for the election of the two Burgesses who represent the Univ. in the House of Commons. Women are eligible for most Univ. offices and for membership of Faculties and Faculty Boards, but cannot become members of the Senate or Regent House. From 1872 women were informally admitted to Tripos exams in the Univ., and from 1881 have been formally admitted to the *Previous* examn., the Tripos exams., and certain exams. in Med. and Music. They were subsequently admitted to the courses and exams. for the Diplomas in Agric., Horticulture, Forestry, and Geog., and for the Training of Teachers, and were made eligible for Certifs. of Research finally in Oct. 1921 a Grace admitting them to titular degrees was passed.

**ADMISSION.** To become an undergraduate member of the Univ. a person must first be admitted either as a member of a College or as a Non-Collegiate Student. No person except Research Students (see p. 61) and certain others may be matriculated who has not passed or been exempted from the "Previous" examn. (see Appendix XX).

For admission to a College or as a Non-Collegiate student application should be made to the proper officer: the Tutor for Admissions, Christ's; the Senior Tutor, Gonville and Caius, St. John's; the Tutor, Clare, Cath., Corp., Down, Magd., Pet., Trin. H.; one of the Tutors, Trin.; the Provost or Tutor, King's; the President, Queens'; the Bursar, Selwyn; the Master, Emm., Jesus, Pem., Sid., the Censor, Fitzwilliam House (Non-Coll. students); the Mistress, Girton, the Principal, Newnham. It is advisable to apply some considerable time beforehand, and if the applicant has any special preference in the matter of lodgings, e.g. for cheap rooms, to begin correspondence at least 12 months beforehand.

As regards *Colonial and Foreign students*, see Appendix XXII.

**ADMISSION TO ADVANCED STANDING.** The following may be admitted as *Affiliated Students*: (a) approved graduates of Associated Institutions; \* (b) certain adult students recommended by the Board of Extra-mural Studies; (c) certain other students on a grace proposed by the Council of the Senate. An *Affiliated Student* is entitled to (1) be exempt from the Previous Examn.; (2) reckon the first term kept by residence as the 2nd, 3rd, or 4th term for the purposes of certain provisions respecting the standing of candidates for (a) Tripos exams., or for degrees in Law or Music, and (b) degrees other than the Ordinary B.A. Degree or Degrees of M.Sc., M.Litt., and Ph.D.; (3) secure such a degree in certain circumstances on one part or section of a divided Tripos.

\* List in Appendix XXII

**INCORPORATION.** Students who before admission as members of this Univ. have kept terms by *bona fide* residence at Ox. or Dub. (Trinity College) are, subject to certain provisos, allowed terms corresponding to those which they have so kept, a graduate of Ox. or Dub. (Trinity College) who took a degree or degrees after having duly qualified himself therefor not only by having passed the examns., etc., required, but by having kept his terms by residence in his own Univ., may be admitted on certain conditions to the same degree or degrees in Camb. Women graduates of Ox. or Dub. (Trinity College) may be admitted by incorporation to the title of the same degree or degrees in Camb.

**INTERCOLLEGIATE INDIAN STUDENTS COMMITTEE:** Secy., R. B. Whitehead, M.A., 22 Fitzwilliam St.

**TERMS.** In order that a term may be counted towards qualifying for a degree, a student must reside in Cambridge (*i.e.* within a circle of  $2\frac{1}{2}$  miles' radius from Gt. St. Mary's Church) during three-fourths of the term. Full terms begin: 1928-29—Oct. 9, Jan. 14, Apr. 19; 1929-30—Oct. 8, Jan. 14, Apr. 22; end: 1928-29—Dec. 7, Mar. 14, June 10; 1929-30—Dec. 6, Jan. 14, June 13.

**DEGREES.** B.A., M.A., M.Litt, Litt D, M Sc, Sc.D., B.D, D.D.; LL.B, LL.M., LL.D.; M.B. and B.Chir, M Chir, M D, Mus.B., Mus.M., Mus.D.; Ph D.

**ARTS.** The qualifications for the B.A. are (i) 9 terms' residence, (ii) passing or being exempted from the *Previous* examn., (iii) passing the examns. for the ordinary degree or a Tripos examn. or examns.

Exemption from (i) to the extent of 3 terms can be obtained by students entitled to the privileges of *affiliation* (*v. supra*).

(ii.) The *Previous* examn. includes Latin or Greek, one other language, Maths., and English. Subject to certain provisos, natives of Asia or Africa who are not of European parentage may substitute papers in Arabic, Chinese, Sansk., or Pali for the Latin papers. For details, see Appendix XX.

Exemption from (ii.) can be obtained by students who hold certain certifs. granted by various Univs. of the U.K., by the Scotch Education Dept., or by the Ministry of Education, Northern Ireland, or by certain Australasian, S. African, American, and European authorities (*v. App. XXII*); such exemption is also granted to students entitled to the privileges of Affiliation, and to certain adult students recommended by the Board of Extra-mural Studies

As regards (iii.), the Ordinary B.A. is obtained by qualifying in 6 subjects, of which 3 at least must be "Principal" and 1 at least must be chosen from each of 2 groups. The Principal Subjects are—in Group I. Bible, Church Hist., Engl., Gk., Lat., Fr., Ital., Span, Ger, Rus., Geog, Hist I., Hist. II, Econ. I., Econ II., Psych., Law I., Law II., Music, Mily. Subjects I., History of Art; in Group II.: Maths., Physics, Chem., Applied Chem., Metal., Bot., Zool., Physiol., Geol., Geog., Engin. I., Engin. II., Engin. III., Mily. Subjects II.

Students of *Agriculture* and allied subjects may proceed to the Ordinary B.A. Degree by means of certain courses dealing with their scientific and practical sides, and including also prescribed literary training

The Honours B.A. is obtained by passing in one or more of the following Triposes: Archæological and Anthropological, Classical, Economics, English, Geog., Hist., Law, Maths., Mech. Sciences, Mod. and Med. Langs., Mor. Scs., Nat. Scs., Oriental Langs., Theol.

A Bachelor may be admitted Master of Arts at the end of six years from the end of his 1st term, provided that not less than 2 yrs. have elapsed from his admission as B.A.

**DIVINITY.** A M.A. or LL.M. proceeds to the B.D. on or after the 11th of June in the 7th year from his *creation* or *admission*, either (1) by submitting an original dissertation composed by himself in Latin or English on some subject connected with Biblical Criticism, Exegesis, or History, or with the Evidences of Christianity, or with Dogmatic Theology, or with the study of other Religions in relation to the Christian Religion, or with Ecclesiastical History, Literature, or Antiquities, or with the Philosophy of Religion, or (2) by specifying his published works on one or more of these subjects. He is required to satisfy the Degree Committee, either by his Dissertation, etc., or otherwise, that he possesses a competent knowledge of Christian Theology. A B.D. of 5 yrs.' standing proceeds to the D.D. by submitting published works or a printed dissertation on the same subjects as those for the B.D.

**LAW.** A student who has kept 9 terms and obtained Honours in both parts of the Law Tripos, or Honours in some other Tripos and subsequently Honours in either part of the Law Tripos, is entitled to proceed to the degree of B.A. To qualify for the LL.B. it is necessary to pass the LL.B. examn. after having kept 9 terms and obtained honours in Pt. I. or Pt. II. of the Law Tripos, or passed in either Part at the honours standard, or taken the degree of B.A. and qualified for practice as a barrister or solicitor in England or Ireland, or as an advocate or law agent in Scotland. A LL.B. may, not less than 6 years after the end of his 1st term and not less than two years since his inauguration or admission, ask leave to submit a dissertation on some branch of law or of the history or philosophy of law, and, if such dissertation is approved, he may be admitted to the Degree of LL.M. A LL.M. (as well as holders of certain other degrees) may be admitted LL.D., not less than 8 yrs. after admission to his 1st degree, if he has published one or more original contributions, approved for the purpose, to the advancement of the science or study of Law.

**MEDICINE.** The qualifications for the M.B. and B.Chir. are : (i.) 9 terms' residence ; (ii.) passing (or exemption from) the *Previous examn* (v. *supra*) ; (iii.) 5 yrs.' Medical study ; (iv.) passing in due order 3 examns. and presenting an approved thesis. Admission to the 2nd M.B. examn. is conditional on proof of diligent attendance on prescribed courses of lectures and practical work. Admission to the 3rd M.B. is conditional on proof of 3 yrs. of hospl. practice, 5 yrs.' Medical study, and diligent attendance on prescribed courses of instruction and practical work. A M.B. in the 9th term after *inauguration* or *admission* (v. *supra*) and a M.A. in the 12th after *creation* or *admission* may be admitted M.D. on submission of a thesis or dissertation, but the M.A. must have attended lectures and hospl. practice and passed examns. as required for the M.B. A candidate for the M.Chir. Degree must pass an examination to which, if Master of Arts, he may be admitted after he has become legally qualified to practise Surgery. A candidate who is not a Master of Arts may be admitted to the examination two years after completing all the requirements for the B.Chir. Degree ; but three years must have elapsed since he was inaugurated or admitted B.Chir. before admission to the M.Chir. Degree. Addenbrooke's Hospl., containing 192 beds and large out-patient depts., is available for clinics. Overseas examns. exempting from the 1st M.B. : 1st examn. for B.Sc. in Agr. of Univ. of S. Africa (subject for subject) ; 1st examn. for medical degrees in Univ. of Adel., Melb., or Syd., or 1st examn. in Science in Physics, Chem., and Biol. in Univ. of Queensland, W. Aust., or Tasm.

**MUSIC.** The qualifications for the Mus.B. include (i.) 9 terms' residence ; (ii.) passing (or exemption from) the *Previous examn.* ; (iii.) passing an examn. in two parts whereof the first may not be taken before the 2nd term, nor the 2nd before the 8th term. The Mus.M. may be taken after at least 3 yrs. have elapsed since *inauguration* (v. *supra*) or *admission* as Mus.B. and after passing the prescribed examn.

Persons not less than thirty years of age who have graduated in some Faculty of the Univ. and given proofs of distinction in musical composition may be candidates for the Mus.D.

**THE SC.D. and LITT.D.** Any person may be a candidate for either degree who is a M.A., LL.M., M.Chir., M.Sc., M.Litt., or Ph.D. of not less than 5 yrs' standing or a M.B. of not less than 7. These degrees are granted in consideration of original contributions to the advancement of Science or Learning.

**DIPLOMAS.** In addition to degrees, which are for the most part conferred only on its own members, the Univ. grants 5 Diplomas which are open to other persons—in Geog., in Pub. Health, in Med. Radiology and Electrology, in Hygiene, in Tropical Med. and Hygiene ; and 6 which are almost entirely restricted to members of the Univ.—Agric. Sc., Anthropol., Class. Archaeol., Education, Forestry, and Oriental Languages, the diplomas in Anthropol. and Orient. Langs. being open to non-members in certain exceptional circumstances only. *Certificates* of competent knowledge of certain foreign languages, open to members of the Univ. only, are awarded. A *Divinity Testimonium* is granted on proof of diligent attendance at 6 courses of lectures.

The *Joint Coal-mining Diploma* of the Univs. of Cambridge and Birmingham enables Cambridge graduates in Engineering to shorten by one year the period of training at Birmingham otherwise required. It is approved by the Board of Trade.

The Diploma in Anthropology may be obtained after residence for one term only by *Officers of any of the Public Services of the Empire*, not ordinarily resident in the British Isles, having exceptional qualifications.

The Diploma in Hygiene, established in 1921 in response to a communication from the League of Red Cross Societies at Geneva, is intended for *foreigners* who possess a qualification to practise medicine or surgery which, though not registrable in Great Britain, is recognized by the authorities of their own countries. The full course must extend over 9 months. The requirements are similar to those demanded for the English D.P.H. except that no detailed knowledge of English public health laws is required.

The Univ. makes provision for training candidates for the Higher **CIVIL SERVICES** ; Probationary Vice-Consuls ; Indian Civil Service selected candidates ; candidates for administrative appointments in Tropical Africa and other branches of the Civil Service, and candidates for service under the Govt. of the Sudan. To meet the wants of Civil Service candidates a series of lectures supplementary to the courses for regular Tripos candidates has been arranged by the Board of I.C.S. Studies, and by a Committee of Associated Colls. Detailed information may be obtained from the Director of Civil Service Studies, appointed by this Committee (C. J. B. Gaskoin, M.A., Fitzwilliam House), and from H. A. Roberts, M.A., Univ. Offices, St. Andrew's St., who is Secy. to the Board of I.C.S. Studies, Foreign Service Students' Committee, and Appointments Board.

A system of **MILITARY INSTRUCTION** has also been organized by the Univ. The Board of Milit. Studies (Secy.—Col. G. J. Hornsby Wright, D.S.O., M.A. Emm.) are in direct communication with the War Office and responsible for

the nomination of Camb Univ candidates for Regular commissions in H.M Forces. See Appendix I.

The **TRAINING OF TEACHERS** is under the management of the Teachers Training *Syndicate*, established in 1878 (Secy.—F. E. E. Harvey, M.A.; address—Warkworth House).

Examns. for the *Certificate of Proficiency*, held in June and Dec., are open to students of certain colleges, and to teachers who have had at least a year's experience in an approved Secondary School, if their attainments are satisfactory.

Students of the *University Training College* (Principal—C. Fox, M.A. Chr.; address—Warkworth House) devote their first 3 yrs. to reading for the B.A. degree, the 4th to professional training. Several scholarships are offered to intending schoolmasters who have been Bursars or Student Teachers. Students who have not previously been attached to the college may also take a post-graduation course of training.

There is also the *Cambridge Training College for Women* (Post-graduation) Principal—Miss M. H. Wood, M.A. Camb, Litt D. Dub.

Cambridge graduates are trained for HOLY ORDERS at Ridley Hall, founded in 1879 (Principal—Rev. J. P. S. R. Gibson, M.A., F.I.A. Sid. Suss.), or at the Clergy Training School, Westcott House, founded in 1881 (Principal—Rev. Canon B. K. Cunningham, O.B.E., M.A. Trin, Church of England). Other theological colleges recognized by the Univ. as Houses of Residence for students. the Westminster Coll., founded 1844 (Principal—Rev. J. Oman, M.A. Qu., D. Phil., and D.D. Edin. and Ox., Presbyterian); Cheshunt Coll., founded 1768 (President—Rev. S. Cave, D.D. Lond., mainly Congregational); St. Edmund's House, founded in 1896 (Principal—Rev. J. F. McNulty, M.A. Chr., Roman Catholic), and Wesley House, founded 1924 (Principal—Rev. H. M. Hughes, M.A. Jes., D.D. Lond.) Cheshunt and Westminster Colleges were moved from Cheshunt and London in 1905 and 1899 respectively.

**RESEARCH STUDENTS.** Each application for admission must be made to the Secretary, and accompanied by (i) a diploma or other certif. of graduation at a Univ., (ii) a statement as to the course of research which the applicant desires to pursue, together with evidence of qualification, attainments, and previous study, (iii) a statement of the degree, if any, for which the applicant wishes to be a candidate, (iv.) a certif. or declaration of the applicant's age at the date of application. In exceptional cases requirement No. (i.) may be dispensed with. The application is not granted unless it appears (a) that the course of research can conveniently be pursued within the Univ., and (b) that the applicant has produced adequate evidence that he is qualified to enter upon the proposed course. Before admission he is required to become a member of a College, or a Non-Collegiate student.

Secretary of the Board of Research Studies: R. E. Priestley, M.A. Clare.

A Research student pursues his course under direction and supervision, prescribed by the Degree Committee of the Faculty concerned. If he should wish to obtain a degree elsewhere he may, after he has pursued his studies in the Univ. for not less than 2 terms with regularity and industry, receive a *Certificate* to that effect signed by his supervisor and by the V.C. After a course extending over 2 yrs. and residence in the Univ. for at least 6 terms (Cambridge graduates, 3 terms) after admission as research students, the M.Sc. or M.Litt. may be obtained. For the Ph.D. (v. p. 18) 3 yrs. are ordinarily required. One year of the 3-years' course may be remitted if the applicant satisfies the Board of Research Studies that he or she has done at least a year's satisfactory research

work before admission to Cambridge Univ. For any degree six terms' residence is essential.

UNIVERSITY SCHOLARSHIPS open to graduates number about 57, and are worth about £5600 p a. In almost every instance they are open only to persons who have graduated in or are members of this Univ., and in some cases only to those who have kept a certain number of terms. For details see *Students' Handbook* (price 7s. 6d., Univ. Press), which also gives details of *Entrance Scholarships*.

EXPENSES. As at Oxford (*q.v.*).

APPOINTMENTS. The University Appointments Board is concerned with appointments of all kinds (Secy.—H. A. Roberts, M.A., Univ. Offices; Asst. Secs.—O. V. Guy, D.S.O., M.C., M.A.; W. N. C. Van Grutten, O.B.E., M.C., M.A., A.M.I.C.E. (Engineering), Educational Secy.—R. S. Goodchild, M.A.).

The UNIVERSITY LIBRARY contains about 1,250,000 vols., including many early printed books, and over 10,000 MSS. and 175,000 maps. It is entitled under the Copyright Act to a copy of every book published in the U.K., and a large number of foreign books and periodicals are acquired by purchase. It contains, amongst others, the following remarkable collections: Acton library (mediæval, ecclesiastical, and modern history, 60,000 vols.); W. G. Aston's Japanese library; Sir T. Wade's Chinese books, J. W. Clark collection (Cambridge books, pamphlets, papers, etc.). The annual budget is about £18,000.

Each College and Hostel has a library. Some are interesting survivals of mediæval rooms kept in the state in which they were originally arranged. Among special collections in College libraries are: in Christ's College the Robertson Smith collection of Oriental books, many of which are connected with Semitic literature, in Gonville and Caius College 800 MSS. collected by Wm. Moore, 1653–59, 60 *incunabula*, heraldic collections of Dr. John Knight (17th cent.), 1300 books and controversial pamphlets of Dr. Wm. Branthwaite (d. 1619), Norfolk and Suffolk topographical and genealogical works; in Girton College small collections of Oriental books, chiefly Sanskrit (Cowell) and Hebrew (Frere—printed catalogue), and Botany books and pamphlets (Ethel Sargent).

In the Arts School in Bene't Street are the Seeley Memorial (works on History and Comparative Politics originally collected by Prof. John Symonds, 1771 to 1807, and added to by his successors), the Bendall (Sanskrit, etc.), and Modern and Mediæval Languages and Moral Sciences departmental libraries. A large library of English and other literature is housed in the English School (Downing St.). The Balfour library in Downing Place contains a large collection of books and periodicals on biological subjects. Here also is the Marshall Library of Economics. Other important departmental collections are in the Museum of Classical Archaeology, the Squire Law Library, the Selwyn Divinity School, and the schools of the Natural Sciences. There is a collection of music in the rooms of the Cambridge Musical Society (Downing St.). The Library of the Philosophical Society maintains a special relation to all the Scientific Depts., and is very rich in sets of Journals and Scientific Transactions.

MUSEUMS of Art and Archaeology. The Fitzwilliam (Director and Marlay Curator—S. C. Cockerell, M.A.) contains a large and valuable collection of paintings, drawings, engravings, Egyptian and Greek antiquities, ceramics, coins, illustrated MSS., autographs, early printed books, and music; the Museum of Class. Archæol. (Curator—A. B. Cook, M.A. Qu.) contains a collection of casts illustrating the history of Greek sculpture.



The Museum of Ethnol. and Archæol. (Curator—L. C. G. Clarke, M.A. Trin. H.) has a large and increasing collection, including Saxon urns and ornaments, casts of Central American monuments, Egyptian stone implements, unique Fijian collection, and numerous others resulting from scientific expeditions by Cambridge men.

The "Museums of Science" include museums, laboratories, lecture-rooms, class-rooms, and workshops for Agric., Bio-Chem., Bot., Chem., Engin. (including Engine-room, Elasticity, Elec., and Hydraulic Labs., and drawing office), Exper. Physics, Hum. Anat., Ethnol., Forestry, Medicine, Mineralogy (collection very largely increased in recent years and one of the best in the country), Physiol., Psychol., Zool. and Comp. Anat. The Zool. Lab., in addition to providing for the ordinary work of the Dept. and for research, affords peculiar facilities for the study of diseases of animals and of economic entomology. The Museum of Zool. includes very complete series of vertebrates and invertebrates, a series of invertebrata from Naples, valuable collection of Polyzoa, extensive collection of marine animals from Pacific and Indian Oceans, and an important collection illustrating heredity, protective resemblance, and mimicry [Supt.—C. F. Cooper, M.A. Trin. H.; Asst. Supt.—F. R. Pazzington, B.A., Sid. Suss.] The Sedgwick Museum of Geol. includes a fine collection of British and foreign building stones lately added to the Economic section.

In addition to the laboratories of the School of Agric. there are Field Labs. covering about 10 acres, provided by means of Govt. grants for an Institute for Research in *Animal Nutrition*; also a Univ. Farm (Director—A. Amos, M.A. Down) of 430 acres, some of which is allotted for *Plant Breeding*. The *Botanic Garden* (Director—H. Gilbert-Carter, M.A. Trin.) has excellent facilities for study. The Molteno Institute for research in *Parasitology*, and a *Low Temperature* Station for research in *Bio-Chemistry* and *Bio-Physics*, were established in 1921.

A *Horticultural* Research Station was established in 1924 in co-operation with the Ministry of Agriculture.

A *Polar Research* Institute was founded in 1925 with the help of a grant from the Capt. Scott Memorial Trustees.

A SCHOOL OF PATHOLOGY was endowed by the Rockefeller Foundation (£133,000) and Ernest Gates (£33,000) in 1924.

The OBSERVATORY (Director—Plumian Prof. of Astr.), about a mile from Cambridge, has a meridian circle of  $8\frac{1}{2}$  in. aperture; the Northumberland equatorial 12 in. aperture; the Sheepshanks photographic equatorial  $12\frac{1}{2}$  in.; a number of smaller instruments, and a good library. The Solar Physics Observatory standing close to the older Obs. has the Newall telescope (25 in.), McClean coelostat and spectrograph, Huggins telescopes, etc. The Univ. has taken over charge (for the Govt.) of the Solar Physics Obs. formerly at South Kensington, receiving a grant-in-aid.

The CAMBRIDGE LOCAL EXAMINATIONS, instituted in 1858, are conducted at various places throughout the country and overseas. Copies of the Regns. regarding the Junr. Local and School and Higher School Certificate examns. and the examns. for Certifs. of Proficiency in Divinity and in English (the former for teachers and the latter for foreign students), may be obtained from the Secy., Local Examns. Syndicate, Syndicate Buildings.

UNIVERSITY EXTENSION Lectures are delivered and classes in connexion with them held by a staff of about 40 itinerant lecturers in various towns in different parts of England, including places so distant as Southport, Newcastle, Gt. Yarmouth, and Exeter, under a system initiated in Cambridge in 1873.

The characteristic features of the method of teaching adopted are (i.) the Lecture presenting the subject in broad outline, (ii.) the Class, held for about an hour before or after the lecture, at which questions are given out by the lectr., (iii.) the essays written on these questions, and (iv.) the examination. The grades of certificates are *Terminal*, awarded after a course of ordinarily 12 lectures; *Terminal Certificate in Honours* implying distinction; *Sessional*, for courses extending over not more than 2 yrs. and including at least 22 lectures; the *Vice-Chancellor's*, awarded to students who obtain *Terminal* or *Sessional* certs. satisfying certain conditions and submit a satisfactory essay. A *Travelling Library* is provided for each course. The work is under the management of the BOARD OF EXTRA-MURAL STUDIES, on which there are, in addition to members of the Senate, representatives of the Local Centres Union and the Workers' Educational Assocn. Full particulars can be obtained from the Secy, G. F. Hickson, M.A., Stuart House, Cambridge.

THE SUMMER MEETING (University Extension) is held in Cambridge in alternate years. It will be held this year in Oxford. At Cambridge there will be a Vacation Course for Foreign Students (English Language, Phonetics, Literature, etc.).

TUTORIAL CLASSES are arranged in connexion with the Workers' Educational Assocn. They are managed by a Committee appointed by the Board of Extra-mural Studies, including all the members of the Board nominated by the W.E.A. The Tutorial Classes Summer School is held every year for 3 or 4 weeks.

PUBLICATIONS. The *Camb. Univ. Reporter*, weekly during term, 3d a copy, *terminal* subs. 2s. 6d., or by post 4s. 6d.; *Ordinances*, 1927 (fresh editions every 3 or 4 yrs., *Supplementary Ordinances*, 1926, 2s. 6d.), 12s. 6d.; *The Students' Handbook*, annually in July, 7s. 6d.; *Facilities for Graduate Study and Research*, 1926; *Compendium of Univ. Regns.*, 9d.; *Statutes for the Univ.*, with some *Acts of Parlt.*, 21s.; *Statutes made by the Univ. of Cambridge Commissioners*, 1926, 2s. 6d.; 1927, 9d.; *Endowments of the Univ.*, 1904, 10s. 6d.; *Alumni Cantabrigienses*, Ed. J. and J. A. Venn (to the year 1751, four volumes), £7. 10s. each vol.; *Matricens and Degrees* (a list of all those who have entered the Univ., 1544-1650, 45s.; 1851-1900, 15s.; 1901-1912, 12s. 6d.); the *Calendar*, annually (Nov.), 15s.; the *Historical Register*, 20s.; *Historical Register Supplement*, 1911-20, 8s. 6d.; *Index to Tripos Lists*, 1748-1910, 10s.; *The War List of the Univ. of Cambridge*, 1914-18, 20s.; *University Extension a Survey of Fifty Years*, by the Master of the Temple, 3s. 6d.; *University Ceremonies*, by H. P. Stokes, 7s. 6d.

Histories, etc. (a) *Annals of Cambridge*, by C. H. Cooper (5 vols.); (b) *The Univ. of Cambridge*, by J. B. Mullinger (3 vols. to the later 17th cent.); (c) *College Histories*—Robinson's Series, various authors; Dent's Series—King's, St. John's, Trinity, 2s. each; (d) *Cambridge and its Colleges*, A. Hamilton Thompson; (e) *Cambridge*, T. D. Atkinson and J. W. Clark; (f) *Architectural History of Cambridge*, R. Willis and J. W. Clark, 4 vols.; (g) *The Charm of Cambridge*, by S. C. Roberts.

Magazines: *The Cambridge Review*, the *Granta*, the *Gownsmen*, the *New Cambridge*, weekly during term.

## RECENT LEGISLATION

The statutes of the Univ. and its constituent Colleges have recently been revised. In 1922 a Royal Commission for Oxford and Cambridge (appointed in 1919) published its report (Cmd. 1588), and in 1923 Parliament established a legislative Commission which was to give effect at Cambridge to the recom-

mendations contained in this report. The statutes made by the Commission, under the chairmanship of Viscount Ullswater, having become operative in 1926, the summary given in the opening paragraphs of the above "General Information" of the principal features of the constitution of the Univ. takes their effect into account.

It will be seen that the legislative and executive functions formerly vested in the Senate (the constitution of which has not been greatly altered) are now to be exercised by a "Regent House" the composition of which is somewhat similar to that of the former Electoral Roll, the powers of the Senate being limited to a suspensory veto. The control over teaching appointments previously possessed by Colleges is shared by them with the University, the former retaining the duty of appointing Directors of Studies who will superintend the weekly personal instruction of students, with correction of essays and the like. The fees hitherto paid to the Colleges for lectures will now be payable to the University instead, moreover, in several subjects a composition fee will replace separate fees. Women have been declared eligible to University teaching posts, and therefore to membership of Boards of Faculties, and trusts are being so altered as to enable the Univ. to throw scholarships and prizes open to the candidature of women unless the founder has expressly excluded women. The stipends attached to open college entrance scholarships have, as at Oxford, been put on an eleemosynary basis, though the winning of a scholarship will depend, as heretofore, entirely on merit. Admission to a degree is to be by a single act, and the ancient procedure by stages (designation and inauguration, inception and creation) is obsolete.

## THE YEAR 1927-28

**BENEFACTIONS.** Sir A. E. Shipley (bequest), books to Molteno Institute, Balfour and Philosophical Societies Libraries, C. Pendlebury, M.A., £600 for endowment of Pendlebury Collection of Music, Ellen McArthur (bequest), £4000 for prize in Economic History, Mrs J. A. Fuller-Maitland, £1000 for prize in Musical Research, Rev Henry Sykes (bequest), for prize in Church History, Lady Walston, £3000 for studentship in Classical Archaeology; Sir Archibald Denny, Bart, prize for Theory of Structures, Royal Society and Royal Geographical Society, £207 to Polar Research Institute, Committee for Scientific and Industrial Research, £2500 p.a. for 5 years for Magnetic Research; three anonymous benefactors, £17,000, £7000, £6000 (completing a gift of £100,000) to Fitzwilliam Museum, an anonymous benefactor, £12,000 for endowment of the Chair of Astrophysics

**BUILDINGS.** The building in Tennis Court Road for Pathology and Animal Pathology is now in occupation, and the extension of the Low Temperature Research Station is in course of building, as are also extensions to the Pitt Press buildings and to the Fitzwilliam Museum, the University has bought from Newnham College the Balfour Laboratory in Downing Place for the housing of the Faculty of Geography.

**DEATHS.** Sir A. E. Shipley, Master of Christ's, Sept. 22, 1927; H. M. Taylor, Fellow of Trinity, Oct. 16; R. A. Herman, Lecturer in Mathematics, Nov. 29; W. S. Hadley, Master of Pembroke, Dec. 25; H. C. Knott, Fellow of Selwyn, Mar. 16, 1928; H. F. Gadow, Reader in Morphology, May 16; E. H. Parker, King's, July 17; G. E. Wherry, Hon. Surgeon to Addenbrookes Hospital, Aug. 12; Baron Anatole A. A. von Hugel, Curator of the Anthropological and Ethnological Museum, Aug. 15; Sir Horace Darwin, Sept. 22; Sir Hugh K. Anderson, Master of Gonville and Caius, Nov. 2.

**HONORARY DEGREES.** *LL.D.*—Sir David Y. Cameron ; Sir Cecil T. B. Hurst, G.C.M.G., K.C.B. ; Rt. Hon. Baron Lugard, P.C., G.C.M.G., C.B., D.S.O. ; Rt. Hon. Lord Justice Scrutton ; Rt. Hon. Sir J. A. Simon, P.C., M.P. *D Litt.*—W. A. Craigie, Professor of English, Chicago ; F. V. M. Cumont, formerly Professor at Ghent *D Sc*—Paul Painlevé, Minister of War of the French Republic, Professor of Analytical and Celestial Mechanics, the Sorbonne ; General Vacchelli, Emmanuel de Martonne ; Sir Charles Close.

**APPOINTMENTS BOARD** In 1927, 438 appointments were obtained on the introduction of the Board. These included . educational, 137 ; manufacturing and technical, 87 , administrative posts in commerce and industry, 97 , Government departments, mainly scientific, 5 ; colonial administrative, 53 , agriculture and forestry, 17 ; Indian and Colonial Railways, P.W.D and Survey, 13 ; journalism and publicity, 8 , secretaryships, 6 ; railway traffic, 4 ; library work, 1 , article clerkships, 5 ; medical, 2 ; miscellaneous, 3.

**LOCAL EXAMNS.** were held in December 1927 at 342 centres, including 44 in India, 26 in Ceylon, 22 in Straits Settlements and Malay States, 3 in China, 19 in Africa, 21 in W Indies, and others in Central and S America, Bermuda, Borneo, British Arabia, Fiji, Gibraltar, Iraq, Italy, Mauritius, Seychelles, and Switzerland. The number of candidates was 15,184. In July 1928 the examns. were held in 378 centres, of which 21 were overseas, and the number of candidates was 9767

**STUDENTS** (excluding 112 men and 32 women not members of the University) whose homes are in the British Isles . men 4403, women 443 , not in the British Isles but within the British Empire . m 396, w. 18 , in foreign countries, m. 214, w 9

**RESEARCH STUDENTS**, June 1928, 291, of whom 106 were Cambridge graduates. Their distribution among the various fields of research was as follows Aeronautics 1, Agriculture 18, Anglo-Saxon 1, Anthropology 6, Biochemistry 18, Botany 22, Classics 8, Divinity 1, Economics 5, Engineering 11, English 22, Fine Arts 1, Geology 11, History 21, Law 5, Mathematics 26, Metallurgy 1, Mineralogy 1, Modern Languages 7, Moral Science 4, Organic Chemistry 12, Oriental Languages 3, Parasitology 2, Physical Chemistry 24, Physics 39, Physiology 5, Psychology 6, Zoology 10

**BOARD OF EXTRA-MURAL STUDIES** Local Lectures (Univ. Extension) . 50 courses of 12 lectures, 8 courses of 6 lectures. Tutorial Classes 7 first-year, 9 second-year, 6 third-year, 2 fourth-year The 20th Local Lectures Summer Meeting was attended by over 800 persons , the subject was "The Victorian Age" The Tutorial Classes Summer School was held for 3 weeks in July and August, and was attended by 76 students Thirteen extra-mural students were resident in Cambridge for the year (two being no longer under the direction of the Board) New regulations were sanctioned by the University, whereby such adult students under the direction of the Board may, under certain conditions, be granted exemption from the Previous Examination and, in special circumstances, the privileges of Affiliation. The *Cambridge Bulletin of Extra-mural Studies* was published twice, in November and March

Students attending Tutorial Classes : men 237, women 245 ; Local Lecture (Extension Courses), 6847.

**STUDENTS.** Full-time, 5627.

**DEGREES** D.D., 1 , M.D., 15 ; Sc.D., 1 ; Litt.D., 2 ; B.D., 3 ; Ph.D., 47 ; M.A., 636 , LL.M., 4 ; M.Sc., 6 ; M.B., 50 ; B.Chir , 57 , LL.B , 31 , Mus.B , 3 ; B.A , 1367 Titles of Degrees conferred on Women during the academical year : Ph.D., 3 ; M.A., 160 ; M.Litt., 2 , M.B., 3 ; B.Chir., 3 , B.A., 221.

# UNIVERSITY OF DURHAM

VISITOR—THE LORD BISHOP OF DURHAM.

CHANCELLOR—.....

VICE-CHANCELLOR—SIR THOMAS OLIVER, D.L., M.A., M.D., D.C.L., LL.D., F.R.C.P.

PRO-VICE-CHANCELLORS—P J HEAWOOD, M.A.; Prof. ARTHUR ROBINSON, M.A., D.C.L.; Sir THEODORE MORISON, K.C.S.I., K.C.I.E., C.B.E., M.A., D.C.L.

DEANS OF FACULTIES—*Theology*: Rev. D DAWSON-WALKER, D.D.; *Arts and Letters* J L MORISON, D.Litt., *Medicine* S McDONALD, M.D., *Science* H G A HICKLING, D.Sc.; *Applied Science*. W M THORNTON, D.Eng., *Music* J. C. BRIDGE, D.Mus.; *Commerce* H M HALLSWORTH, M.Com., *Law* A ROBINSON, D.C.L.

PROCTORS—H. J. HUTCHENS, D.S.O., M.A.; E. G. PACE, M.A., D.D.

REGISTRAR—H G THEODOSIUS, M.A., B.ès L., 38 North Bailey

LIBRARIAN—E. V. STOCKS, M.A.

## AFFILIATED AND ASSOCIATED COLLEGES

A. Colleges in which students may matriculate, keep terms, and pass exams., and so qualify without coming to England for the B.A., M.A., B.D., D.D., B.C.L., and D.C.L. degrees

CODRINGTON COLLEGE, BARBADOS. Trustees (under the will of Christopher Codrington, who died in 1710)—The Society for the Propagation of the Gospel; Visitor—The Lord Bishop of Barbados; Principal—J. C. Wippell, M.A., B.D.; Prof. of Theology—..., Prof. of Classics—W W C Dunlop, M.A.; Prof. of Medicine—W. B. Clarke, M.B., C.M.; Tutor (Acting)—L. A. Prescod.

FOURAH BAY COLLEGE, SIERRA LEONE. Founded in 1827 by the Church Missionary Society. In 1918 the Wesleyan Missionary Society became associated with the C.M.S. in the control of the College. Visitor—The Bishop of Sierra Leone, Deputy Visitors—The Chief Justice, the Colonial Secretary; Principal—J. L. C. Horstead, M.A., Senior Tutor—T. S. Johnson, M.A., B.D.; 4 Tutors and 2 Occasional Lecturers.

B The following associated Theological Colleges:

St Aidan's; St. Andrew's (Oyo, Nigeria); St. Augustine's; the Bible Churchmen's Missionary College (Clifton), Burgh, Chichester, Dorchester; Edinburgh, Highbury; Jamaica; St. John's, Armidale, N.S.W.; Lichfield; Lincoln, Moore, Sydney, Queen's (St. John's, Newfoundland); Salisbury; Selwyn (Dunedin), Warminster; Bishop Wilson School (Isle of Man), Theol. Depts of King's Coll., London, and Queen's Coll., Birmingham.

Students may take in these Colleges courses extending over 3 years, which qualify for the Lic.Theol. Nine terms kept in one of these Colleges, after passing the matricn. examn., may be counted in lieu of 6 of the terms required for the B.A. degree in the case of a student who obtains the Lic.Theol.

## GENERAL INFORMATION

The Univ. was established by Act of Parliament in 1832 and reconstituted in two divisions in 1908. The College of Medicine, founded in 1832, became associated with the Univ. first in 1852, and more closely, as "The University

of Durham College of Medicine," in 1870. Armstrong College was founded in 1871 as the Durham College of Physical Science, and assumed its present name in 1904. The Vice-Chancellorship is held in rotation by a representative of the Durham Colleges, College of Medicine, and Armstrong College for 2 years.

The Univ. has no teaching staff apart from those of the Durham Colls., the Coll. of Medicine, and Armstrong Coll. The Council of the Durham Colleges, the Coll. of Medicine, and Armstrong Coll. have respectively full power and authority to regulate teaching and discipline, and to provide for the appointment of all their teachers and other officers.

**LIBRARIES.** See under the Colleges.

**MATRICULATION.** See Appendix XX.

**ADMISSION OF STUDENTS FROM OVERSEAS.** The matricn. examns of Sydney and the S. African Univs. and degrees in Arts of all Univs. of the British Empire are accepted. See also Appendix XXII.

**DEGREES.** B.A., M.A., B.Litt. (obsolete), M Litt., D.Litt.; B.Sc., M Sc., D Sc.; B.D., D.D.; B.C.L., D.C.L., LL.B.; M B, B S., M.D., M.S, D.Ch.; B Hy., D Hy.; B D.S., M D.S.; B.Mus., D.Mus.; B.Com., M.Com.; Ph D., M Ed (v. p. 18).

*Diplomas* in Foreign Langs., Arabic, Theol., Psychiatry, Teaching, Public Health; L.D.S., Lic.Theol

The B.A., B.Sc., or B.Com. may be obtained by a 3 yrs.' undergraduate course. For the 1st yr. of the B.Sc. course equivalent study in another Univ., and for the 1st yr. of the B.Com. course 2 yrs.' attendance as an evening student, may be accepted. For the B.Mus. two public examns must be passed.

For the M.B. and B.S. at least 1 of the 5 yrs. of Med. study must be spent in the Coll. at Newcastle. The B.Hy. is open to graduates in Med. who have spent 1 yr. in professional study at Newcastle. The B.D.S. course is one of 5 yrs.

The B.C.L. may be taken by examn. by a B.A. of 6 terms' standing.

The LL.B. may be taken by a candidate of Intermediate grade in Arts or Science after a 3 yrs.' course.

The course for the Diploma in Teaching covers 3 terms after graduation.

The course for the Diploma in Arabic covers 3 terms.

The M.A. is open to a B.A. of 9 terms' standing who obtained 1st or 2nd Class Honours in the Final B.A. examn. or, after passing this examn., has passed the Dipl. Theol., B.D., B.C.L., M.B. or B.Sc., degree examn., or who qualifies by passing a special examn.

The M.Litt. can be obtained by graduates in Arts or Commerce of Durham after at least 2 years' research under the direction of a member of the University Staff.

The M.Sc. can be obtained by a B.Sc. of 2 yrs.' standing by original work or examn.

The M.D.S. can be obtained by a B.D.S. of 2 yrs.' standing by thesis and practical dental work of high skill.

The M.Ed. can be obtained without further residence by graduates of Durham or of an approved University who hold the Diploma in the Theory and Practice of Teaching of Durham; by other graduates after a two years' course of study *under direction*.

The D.Litt. or D.C.L. may be obtained by a B.A. (or B.Litt.) or B.C.L., respectively, of 10 yrs.' standing by a sufficient contribution to learning; the D.Sc. in the 7th year after admission to B.Sc.; the D.Mus. by a B.Mus. of 15 terms' standing.

For the M.D. a candidate must have had 2 yrs. of practice in a hospil. or Mily. or Naval service after graduation as M.B.

For the D.Ch. a candidate must have devoted 3 yrs. (including one at least in the Univ. and 6 months at least abroad), subsequently to having obtained a registrable qualification, to the study of surgery and ancillary subjects.

For the D.Hy. 2 yrs.' experience of Pub. Health administration or research after obtaining the B.Hy. are necessary.

*M.D. Degree Examn. for Practitioners.* A person who has been registered by the Gen. Med. Council of the U.K. and in the active practice of his profession for 15 yrs. as a qualified practitioner and is not less than 40 yrs. of age may obtain the M.D. degree without fulfilling any conditions as to residence on passing an examn. instituted for this purpose by this Univ. and held in June and Dec. Candidates who have not passed previously to their professional examn. an examn. in Arts are required to pass an examn. in Classics and Maths. Natives of India are admissible if they bring evidence of having passed within the preceding year an examn. in Latin.

*Degrees, etc., in Theology.* The B.D. examn. is open to candidates who are graduates of a Univ. of the British Empire in Arts (or Letters) of 2 yrs.' standing; if of another Univ. they must have obtained the Dipl. Theol. of Durham. The Board of the Faculty may admit also non-graduates who keep three terms at Durham and pass the Dipl. examn.

The Lic. in Theol. is open to members of the Church of England only. Nine terms must be kept at one of the Theol. Colls. in list B above.

The Dipl. in Theol. is obtainable by graduates of a Univ. of the British Empire who keep 3 terms at Durham and pass the Dipl. examn. Residence for a year at an approved Australian Coll. may be accepted in lieu of keeping 3 terms at Durham.

The D.D. is open to a B.D. of Durham who is a Master of Arts of 10 yrs' standing on submission of a sufficient contribution to learning.

**FEES** Matricn., £2. Examns. and degrees, £2 to £10 (Examns. for D.Ch., £20; D.Hy., £20; M.D. for practitioners, 50 gs.; Final for M.B., B.S., £15).

**PUBLICATIONS.** *Univ. Calendar* (Oct.), 2s. 6d.; *Durh. Univ. Gazette*, 4s., 4 times a year, *Durh. Univ. Journal* (oldest Univ. Mag. in England), once a term, 1s. 6d.

## THE YEAR 1927-28

**NEW DEVELOPMENTS.** Degree of Master of Education (M Ed) instituted. Degree of Master of Letters (M Litt) thrown open to graduates in Arts and Commerce of Durham after two years' research. Faculty of Applied Science established. New Honours School of Philosophy, History, and Economics established. Bible Churchmen's Missionary College (Clifton) associated with the University. Riddell Memorial Lectures founded.

**HONORARY DEGREES.** *D.D.*—B. H. Streeter, W. S. Jones. *D.Litt*—P. S. Allen, E. A. C. M. Fabricius, J. A. Fuller-Maitland. *M.A.*—J. A. C. Deas, W. T. Jones.

**DEGREES.** D.D., 1; M.D., 13; M.D. (Practs.), 2; D.Sc., 3; D.Mus., 2; Ph.D., 7; M.A., 49; M.S., 1; M.Sc., 8; M.Com., 1; M.B. and B.S., 17; B.A., 137; B.S., 2; B.Sc., 90; B.Mus., 5; B.Com., 4; B.Hy., 6; L.Th., 21; L.D.S., 5; Dip.Th., 14; D.Th.P.T., 74; D.P.H., 6; M.A. (by vote of Convocation), 1.

**TUTORIAL CLASSES (W.E.A.) AND EXTENSION COURSES.** During 1927-28 the total number of Tutorial Classes was 45, of Extension Courses 11, of Preparatory Classes 7; the districts served being the counties of Durham, Northumberland, Cumberland and Westmorland, and the County Borough of Middlesbrough.

## DURHAM DIVISION

*President of Council*—J. S. G. PEMBERTON, M.A., D.C.L.

*Secretary of the Council*—J. L. BURCHNALL, M.A.

*Secretary of Examinations*—J. H. HOW, M.A.

*Prælector*—S. R. P. MOULSDALE, M.A., B.D.

*Treasurer*—F. W. RITSON, M.A.

*Librarian*—E. V. STOCKS, M.A.

### PROFESSORS AND LECTURERS

#### *Archæological Research*

Simpson, F. G., M.A. Director.

#### *Botany*

Griffiths, B. M., D.Sc. Birm.,  
F.L.S. Reader

Higgins, Edith M., B.Sc. Lond.,  
Ph.D. Liv. Lectr.

#### *Chemistry*

Masson, J. I. Orme, D.Sc. Melb.,  
F.I.C. Prof.

Christie, G. H., M.Sc., Ph.D. Sheff.  
Lectr.

Gibby, C. W., M.Sc., Ph.D. Lond.  
Lectr.

Waters, W. A., M.A., Ph.D. Camb.  
Lectr.

#### *Classics*

Richards, G. C., M.A., D.D. Ox.  
(Greek and Class. Lit.) Prof.

How, J. H., M.A. Ox. (Latin) Prof.

Boden, J. P., M.A. Lectr.

Body, L. A., M.A. Camb. Lectr.

Donaldson, Rachel E. D., M.A.  
Ox. and Durh. Lectr.

Norman, R. T., M.A. Lond., B.A.  
Ox. Lectr.

#### *Divinity and Eccles. History*

Dawson-Walker, D., M.A., D.D.  
Ox. Prof.

#### *Divinity*

Pace, E. G., M.A., D.D. Reader.

#### *Economics and History*

Hood, F. C., M.A. Edin. Lectr.

#### *Education and Psychology*

Robinson, A., M.A., D.C.L. Prof.

Rich, R. W., M.A. Lond.  
Lectr. (Ed.).

#### *English Lang. and Lit.*

Ellershaw, H., M.A. Prof.

Colgrave, B., M.A. Camb. Lectr.

Ecclestone, A., B.A. Camb. Lectr.

#### *Geography*

Manley, G., M.A., B.Sc. Camb.  
[Lectr.]

#### *Geology*

Holmes, A., D.Sc. Lond., F.G.S.  
[Prof.]

Hopkins, W., M.Sc., Ph.D. Lectr.

#### *Hebrew and Oriental Langs.*

Guillaume, A., M.A. Ox. Prof.

#### *History*

Whiting, C. E., M.A., D.D., B.C.L.  
[Reader.]

Braley, E. F., M.A., LL.M. Camb.  
Lectr.

Dacombe, Marianne R., M.A. Ox.

Lectr.

Willatt, J. F., B.A. Camb. Lectr.

#### *History, Ecclesiastical*

Wallis, C. S., M.A. Lectr.

#### *Liturgiology*

Mouldsdales, S. R. P., M.A., B.D.  
[Lectr.]

#### *Mathematics*

Heawood, P. J., M.A. Ox. Prof.

Burchnall, J. L., M.A. Ox.

Lectr.

Baxter, E. F., M.A. Camb., M.Sc.

Lond. Lectr. (Applied M.).



*Military Science*

Lynden-Bell, L. A , M C      Lectr

*Modern Languages*      [Prof

Herdener, C. F., M A. (B A Lond )

Lambley, Kathleen, M A , Doc.  
Univ Rennes

Lectr (French)  
Houston, Gertrude A. C., M A.  
Belf., Lond., and Durh

Lectr. (German).  
Scott, Ethel M , B A Lond

Lectr (French)

Pol, P      Fr Asst

Vigour, M      Fr Asst

Camus, Y      Fr Asste

*Music*

Bridge, J C , M A , D Mus      Prof

*Palæography*

Falkner, J. M., M A. Ox. and  
Durh.      Hon. Reader.

*Philosophy*      [Prof

Jevons, F. B , M A Ox , D Litt

*Physics*

Wagstaff, J. E. P., M A , D Sc.  
Camb.      Prof.

Bastings, L., B.A., M.Sc. N Z.

Lectr.

Chalmers, J. A , B A Camb , B Sc  
Lond      Lectr

*Psychology*, v. Educn.

*Theology*, v also Div.

Jarrow, Bishop of, D D.  
Hon Reader.

Coleman, N. D , M A Camb  
Lectr. in T. and Hellen  
istic Greek.

Elliott, W T , M A Ox  
Lectr in Pastoral T.

**University Extension**

23 Tutors and Lecturers were  
employed, of whom 4 were  
members of the University  
Staff Secy to the Joint  
Committee Rev Dr Pace  
Organizing Secy of N E. Dis-  
trict of W E A . Alderman  
W N Smith

**THE DURHAM COLLEGES**

UNIVERSITY. Master—H. Ellershaw, M A. Censor and Bursar—A. A. Macfarlane-Grieve, M A. Chaplain—N D. Coleman, M A.

HAIFFIELD. Master—A. Robinson, M A., D C L. Vice-Master and Chaplain—E G Pace, M A , D D Tutor in English—B Colgrave, M A. Censor—C F Herdener, M A Bursar—A. A Macfarlane-Grieve, M A.

ST CHAD'S. Principal and Chaplain—S R P Mouldsdales, M A., B D. Vice-Principal—C. E. Whiting, M A., D D , B C L. Classical Lectr —L A. Body, M A Fellow, Tutor, and Bursar—J P. Boden, M A. Junior Tutor—C I Pettitt, B A.

ST JOHN'S. Principal and Chaplain—C. S. Wallis, M A. Vice-Principal—H. Y. Ganderton, M A. Classical Lectr —O W Whaley, M A. Lectr. in Hebrew—N. D. Coleman, M A. Elocution Teacher—A. D. Culley, M A., Mus.B.

ST. MARY'S (for women) Principal—Rachel E D. Donaldson, M A.; Senior Tutor and Censor—Marianne R Dacombe, M A English Tutor and Secretary—Erica M. Lee, B A Domestic Bursar—Marjorie J Middleton.

\*BEDE (Training College for men). Principal—F. F. Braley, M A., LL M. Vice-Principal—R. R. Kimbell, M A., Mus Bac. Lectrs.—H. W. Dobson,

\* Colleges under the Board of Education licensed by the Council of Durham Colleges as places of residence for students reading for degrees in the Durham Division of the University.

M.A. ; J. Wall, M.A. ; J. F. Willatt, B.A. ; B. Colgrave, M.A. ; L. T. Crawhall, B.A. ; M.R.C.S. ; C. R. Wheatley ; C. S. Axon ; D. E. Webster.

\***St. HILD's** (Training College for women). Principal—Eleanor C. Christopher, M.A. Lectrs.—Winifred Hindmarch, M.Litt. ; Jean Templeton, M.A. ; Barbara McRae, B.A. ; Gladys Hinde, B.A. ; Alice Skillicorn, B.Sc.

\***NEVILLE'S CROSS** (Training College for women). Principal—Zeta G. D. May, M.A. Lectrs.—Mary Benson, M.A., B.Sc. ; Marjorie C. Haywood, M.A. ; Winifred M. A. Lomas, B.Sc. ; Netty M. Lunan, M.A. , Dorothy Price, M.A.

**NON-COLLEGIATE STUDENTS.** Censor—N. D. Coleman, M.A.

**HOME STUDENTS (Women).** Censor—Kathleen Lambley, M.A., Doc. Univ. Rennes.

## GENERAL INFORMATION

University College was formed at the opening of the Univ. ; Hatfield College was opened (as Bishop Hatfield's Hall) in 1846, St. Mary's in 1899, St. Chad's in 1904, St. John's in 1909. Bede College, founded in 1839, was brought into connexion with the Univ. in 1919 as a licensed Hall of Residence for Undergraduates. St. Hild's (established in 1858 as a C. of E. Training College) and Neville's Cross (established in 1921 by the County Council as a Training College) are licensed as places of residence for women undergraduates.

**LIBRARY,** 41,000 vols, 157 incunabula ; including rare theological and patristic books. Separate Science Library in the Department of Science.

**OBSERVATORY** with almucantar, etc

**MATRICULATION.** See Appendix XX.

**FEES** Including admission, tuition, exams, board and lodging, subscriptions and gratuities, at Univ. College, £115 p.a. ; Hatfield, £106 ; St. Chad's, £111 ; St. John's, £110 ; St. Mary's, £111 ; St. Hild's, £50-£60 ; Neville's Cross, £45. Non-Coll. students pay £30 p.a., Univ. fees including club subscriptions ; average cost of board and lodging per term £14 to £24. Students in Science pay slightly higher fees.

**FELLOWSHIPS** 3 Tutorial, £200 to £300, and 1 ordinary, £200, open only to candidates who have kept terms and taken B.A. in Durham Division.

## THE YEAR 1927-28

**DEVELOPMENTS.** Grant to Library increased by £200 per annum. New block of Lecture Rooms approaching completion. Additional lecturers in French and Geography appointed. Two additional French " Assistants " appointed. Geography as subject in Arts and Science. Establishment of Geography Department, including Laboratory. A new series of popular lectures delivered during the winter in the University buildings by members of the Staff and others was well attended.

**RESIGNATIONS.** Dr. A. K. Macbeth (Chemistry), on appointment as Prof at Univ. of Adelaide. Dr. R. K. Schofield (Physics), on appointment at Rothamsted Agricultural Station. Dr. Elsie Phillips (Botany).

**STUDENTS.** Full-time, 430 ; part-time, 1.

**DEGREES OBTAINED** D.D., 1 ; D.Mus., 2 ; M.A. (by vote), 1 ; M.A., 35 ; B.A., 76 ; B.Sc., 11 ; B.Mus., 5 ; L.Th., 21 ; Dip.Th., 14 ; D.Th.P.T., 25.

\* Colleges under the Board of Education licensed by the Council of Durham Colleges as places of residence for students reading for degrees in the Durham Division of the University.

# COLLEGE OF MEDICINE, NEWCASTLE-UPON-TYNE

*Chairman of the Court of Governors*—R. G. E. MORTIMER, M.A.

*President of the College, Vice-Chairman of the Court of Governors and Chairman of Council*—SIR THOMAS OLIVER, D.L., M.A., D.C.L., M.D., LL.D., D.Sc., F.R.C.P.

*Vice-Chairman of Council and Registrar*—SIR ROBERT BOLAM, O.B.E., M.D., LL.D., F.R.C.P.

*Treasurer*—SIR JOSEPH REED.

*Dean of the College*—STUART McDONALD, M.A., M.D., F.R.C.P.E., F.R.S.E.

*Secretary of Examinations*—D. BURNS, M.A., D.Sc. Glas

*Curator of Museum*—W. E. M. WARDILL, M.B., B.S., F.R.C.S.

## PROFESSORS, LECTURERS, ETC.

<i>Anæsthetics</i>		<i>Dermatology, Clinical, and Venereal Diseases</i>	
Tate, E., M.D., B.S.	Tutor	Bolam, Sir Robert, O.B.E., M.D., LL.D., F.R.C.P. Lectr	
<i>Anatomy</i>		Thompson, S., M.B., B.S. Asst	
Green, R. B., M.A., M.B., B.S. Lond., F.R.C.S.	Prof	<i>Hygiene, v. Pub. Health</i>	
Whillis, J., M.B., M.S.	Demr.	<i>Laryngology, Otology, and Rhinology, Clinical</i>	
Lectrs in Appl. A :		Whillis, S. S., M.D., B.S. Lectr.	
Clay, J., K.H.S., C.B.E., M.B., B.S., F.R.C.S.		Wilson, W. F., M.B., B.S. Asst.	
Lickley, J. D., M.D. Glas.		<i>Materia Medica, Pharmacology, and Therapeutics</i>	
<i>Bacteriology, v. Path. Comp</i>		Hume, W. E., C.M.G., M.A., M.D., B.Chir. Camb., F.R.C.P. Prof.	
<i>Biology</i>		<i>Electrotherapeutics</i>	
Harrison, J. W. H., D.Sc., F.R.S.E. (Botany) Prof *		Gamlen, H. E., M.B., B.S., D.P.H. Lectr	
Meek, A., D.Sc., F.Z.S. (Zool) Prof *		Davidson, S. W., M.D., B.S. Asst	
<i>Chemistry, Organic</i>		<i>Medical Jurisprudence</i>	
Clemon, G. R., Ph.D., D.Sc. Lond., D.Phil. Ox., F.I.C. Prof *		Hall, G., C.M.G., M.D. Lond., B.Sc. Lectr.	
<i>Chemistry, Inorganic</i>		<i>Medicine, Principles and Practice</i>	
Briscoe, H. V. A., D.Sc. Lond., A.R.C.Sc., D.I.C. Prot. *		Beattie, T., M.D., F.R.C.P. Prof.	
<i>Children, Diseases of</i>		. . . . . Lectr.	
Ogden, O. W., M.D.	Lectr		
<i>Dental Science, v. infra</i>			

\* Also in Armstrong Coll.

*Medicine, Clinical*

Prof. Hume (v. Mat Med) Lectr.  
 Drummond, H., M.D., B.S. Lectr.  
 Parkin, A., M.D., F.R.C.S. Lectr.  
 Hall, G. (v. Med Juris.) Lectr.  
 Patterson, D. W., O.B.E., M.B.,  
 B.S. Lectr.  
 Hunter, T. C., M.D., B.S. Lectr.  
 Nattrass, F. J., M.D., B.S. Lectr.  
 Spence, J. C. (v. Path) Lectr.

*Midwifery and Gynaecology*

Lyle, R. P. R., M.A., M.D. Dub  
 and Durh., B.Ch., B.A.O.  
 Dub. Prof.  
 Murray, E. F., M.D. St. And.,  
 F.R.C.S.

Lectr. & Clin. Lectr.

Lectrs. in Clinical M.

Ruxton, W. L., M.B., C.M.  
 Campbell, L. Mabel R., M.A.,  
 M.B., Ch.B.

Evers, H. Harvey, M.B., M.S.,  
 F.R.C.S.

Weeks, L. M., M.A., M.D., B.Ch.

*Ophthalmology and Clin. Ophth.*

Wardale, J. D., M.A., M.B., B.S.  
 Prof.

Arkle, J. S., M.B., B.S. Lectr.

*Pathology and Clin. Path.* [Prof.

McDonald, S., M.D. Edin., M.A.

Shaw, A. F. B., B.A., M.D. Dub.,  
 D.P.H. Lectr.

Stephenson, G. E., M.C., B.Sc.,  
 M.B., B.S. Demr.

Spence, J. C., M.D.

Demr. (Path. Chem.)

Hume, W. E. (v. Mat. Med.)

Demr. (Medical Path.)

Wardill, W. E. M., M.B., B.S.,  
 F.R.C.S.

Demr. (Surgical Path.)

Murray, E. F. (v. Midw.)

Demr. (Gynæc. Path.)

*Pathology, Comp., and Bacteriology*

Hutchens, H. J., D.S.O., D.P.H.  
 Ox., M.A. Heath Prof.

Dawson-Walker, E. F. D., M.D.,  
 B.S., B.Hy. Demr.

Warren, S. H., M.R.C.S., L.R.C.P.,  
 D.P.H.

Director of Routine  
 Laboratory

*Physics*

Curtis, W. E., D.Sc. Lond.,  
 A.R.C.S. Prof. \*

Todd, G. W., M.A. Cantab., D.Sc.  
 Birm. Prof. \*

*Physiology*

[Prof  
 Burns, David, M.A., D.Sc. Glas.

Secker, J., M.Sc. Lectr.

Saunders, J. A., M.Sc. Demr.

Nattrass, F. J., M.D., B.S. (in  
 Clinical P.) Demr.

*Psychological Medicine*

MacPhail, H. D., O.B.E., M.A.,  
 M.D. Lectr.

*Public Health*

Kerr, H., O.B.E., M.A., M.D.,  
 Ch.B. Edin., D.P.H. Prof.

*Surgery*

Turner, G. G., M.B., M.S., F.R.C.S.,  
 F.A.C.S. (and in Clin. S.)

Prof.

..... Lectr.

*Clinical Lectrs. :*

Martin, A. M., M.B., B.S.

Clay, J. (v. Anat.)

Willan, R. J., M.V.O., M.B., M.S.,  
 F.R.C.S.

Pybus, F. C., M.B., M.S., F.R.C.S.

Johnston, H. M., B.A., M.B. Belf.,  
 F.R.C.S.

Barclay, J. H., M.D., M.S.,  
 F.R.C.S.

Hodgson, N., M.B., M.S., F.R.C.S.

Hindmarsh, T. A., M.B., M.S.,  
 F.R.C.S.

Gilmour, J., M.B., M.S., F.R.C.S.

Whyte, A. H., M.B., M.S., F.R.C.S.

Hewitson, W. A., M.B., B.S. Lond.,  
 M.B., B.S. Durh., F.R.C.S.

## DURHAM: COLLEGE OF MEDICINE, NEWCASTLE 75

*Therapeutics*, v. *Materia Med.*

*Zoology*, v. *Biol*

### Dental Science

Lectrs. :

Laing, A. M., L.D.S. (D Anat. and Physiol, Microscopy and Histology)

Daniels, J. W., L.D.S. Edin. (D Mechanics).

I.otinga, C., L.D.S. (D Metallurgy)

Coltman, J., L.D.S. (D Surg. and Path.).

Hutson, W., L.D.S. (Op D Surg)  
Cooper, E. R., L.D.S. Edin.  
(Orthodontics).

Seymour, W., M.B., B.S. (D. Anæsthetics).

Davis, H., L.D.S. (D. Mat. Med. and Therap.).

7 Hon. D. Surgeons, 19 Hon. Asst. D. Surgeons, 1 Anæsthetist, 1 Hon. Radiographer.

Chalmers, J., L.D.S.

Prosthetic Tutor.

Mallett, R. H., L.D.S.

Tutorial D Surgeon.

## GENERAL INFORMATION

Instruction in Clinical Medicine and Surgery is given in the Royal Victoria Infirmary (560 beds) and other hospitals; in Practical Midwifery and Clinical Gynæcology at the Princess Mary Maternity Hospital. The Pathological Museum provides an exceptional collection of specimens prepared by modern methods. Post-graduation teaching is supervised by a committee representing the College and the hospitals. Research facilities are available in the various departments.

**LIBRARIES.** An annual contribution is made to the new Library at Armstrong College. In the medical section of the Armstrong College Library available for students of the College of Medicine there are over 14,000 volumes. Departmental libraries, 542 volumes

**MUSEUMS** Anat., Hygiene, Mat Med, Path

**MATRICULATION** See Appendix XX.

**SCHOLARSHIPS** open to undergraduate students of the College vary from £20 to £48 p.a., open to graduates, £200 every second year and £180 every third year.

**FEES** *For tuition.* M.B., B.S. (5 years' course), £241 7 6, L.D.S. (4 years' course), £190 9s; B.D.S. (5 years' course), £202 14s (in each case including all hospital fees and subscriptions to Students' Union). *For examinations.* Pre-Registration, £3 3s., M.B., B.S., £30, M.D., £5; M.S., £5, D.Ch., £20; B.Hy., £10 10s.; D.P.H., £10 10s; D.Hy., £20, D.Psy., £10 10s.; M.D. (for practitioners), £52 10s, including fee for degree, L.D.S., £15 10s.; B.D.S., £23; M.D.S., £5 *For degrees:* M.B., £6 6s\*; B.S., £6 6s; M.D., £10; M.S., £6 6s, D.Ch., £10; B.Hy., £6 6s\*, D.P.H., £3; D.Hy., £10; D.Psy., £3; L.D.S., £3; B.D.S., £6 6s.\*; M.D.S., £6 6s., Ph.D., £5\*. (When a degree marked \* is an initial degree at the University the sum of 10s. is added)

## THE YEAR 1927-28

Public subscriptions to College funds amounted to £5

**STUDENTS.** Full-time. 245; graduates, 11. Part-time, 108, including 104 graduates.

**DEGREES AND DIPLOMAS** obtained: M.D., 13; M.D. (Pract.), 2; M.S., 1; B.Hy., 6; M.B., B.S., 17; B.S., 2; D.P.H., 6; L.D.S., 4.

## ARMSTRONG COLLEGE, NEWCASTLE-UPON-TYNE

*President of the College*—Rt Hon. VISCOUNT GREY OF FALLODON, K.G., P.C., D.C.L.

*Chairman of Council*—CECIL A. COCHRANE, M.A., D.C.L., J.P.

*Vice-Chairman of Council*—Sir W. J. NOBLE, Bart

*Principal*—Sir THEODORE MORISON, K.C.S.I., K.C.I.E., C.B.E., M.A. Camb., D.C.L.

*Registrar and Secy of Examinations*—J. Y. T. GREIG, M.A., D.Litt. Glas

*Bursar*—R. N. WILKINSON

*Librarian*—F. BRADSHAW, M.A. Ox. and Durh., D.Sc. Lond

### PROFESSORS, LECTURERS, ETC.

*Accounting*  
Bell, Albert, F.C.A. Lectr.  
Allan, T. K., A.C.A. Asst Lectr.

*Agriculture and Rural Economy*,  
v. also Forestry, Vet. Sc.,  
Dairy Bact  
Heigham, C., M.A. Camb. Prof  
Wheldon, R. W., D.Sc. Lectr  
Pawson, H. C. Lectr  
Adam, D. T., B.Sc. Aberd. (Land  
Surv., etc) Lectr.  
Westwater, C. H., M.A., B.Sc.  
Glas Lectr.

*Agricultural Botany* [Lectr  
Hedde, R. G., B.Sc., M.A. Edin

*Agricultural Chemistry*  
Thomas, B., M.Sc. Adviser  
Hall, A. A., M.Sc. Liv and Manc  
and Durh., Ph.D. Jena, F.I.C.  
Lectr

*Agricultural Economics*  
Dinsdale, D. H., M.A. Adviser

*Agricultural Mycology*  
Bennett, F. T., B.Sc. Lond  
Adviser

*Agricultural Zoology*  
Gray, R. A. H., M.A., B.Sc. Aberd.,  
M.Sc. Adviser.

Morrison, L., B.Sc. Aberd. Lectr.

*Archæology*  
Simpson, G., M.A. Durh  
Hon. Dir. of Field Studies

*Art* (School of Fine Arts)  
Dickey, E. M. O'R., M.A. Camb  
Prof. and Dir. of School  
Bullock, R., M.A.  
Master of Painting and  
Asst. Dir.

Bertram, R. J. S., M.A. (Design).  
Maryon, H. J., Assoc. Univ. Read  
(Sculpture)

Weightman, F. N., M.A. (Archit.)  
Heslop, A., M.A. (Engraving)  
Lall, Mrs. D. M., B.A. Birm. (Art  
Teaching)  
Thomson, Miss M. (Pottery)  
10 Assts

*Botany*, v. also Agric.  
Harrison, J. W. H., D.Sc., F.R.S.  
Prof. and Reader in  
Genetics.

Blackburn, Miss K. B., D.Sc.  
Lond., F.L.S. Lectr  
Bartlett, A. W., M.A. Camb., B.Sc.  
Lond., M.Sc., F.L.S. Lectr  
Thomas, Meirion, M.A. Camb. Lectr.

*Chemistry, v. also Agr.*

Briscoe, H V. A, D Sc. Lond,  
M Sc., A.R C.Sc., D.I.C.

Prof. (Inorg and Physi-  
cal C.) and Director of  
Dept.

Clemo, G R, Ph D, D.Sc. Lond.,  
D.Phil Ox. Prof.(Organic C.)

Madgin, W M, M.Sc Lectr

Robinson, P. L, D Sc Lectr

Mallen, Miss C. E., M A Camb  
Lectr

Leitch, Miss G C., M A, B Sc,  
Ph D. St And Lectr

Haworth, R D, M Sc, Ph D  
Manc Lectr

Sayce, L. A, M.Sc, Ph D Lectr

Raper, R, M A., Ph D Camb „

*Classics and Ancient History*

Duff, J Wight, M A Aberd and  
Ox, D Litt Ox and Durh,  
LL D Aberd Prof

Shipley, Miss C. M., M A Lectr.

Waddell, W G, M A Glas and  
Lond Lectr

Whittick, G C, M.A. Ox. Lectr.

*Crystallography and Mineralogy*

Fletcher, M., M A Camb and  
Durh, M.Sc, F G S Lectr

*Dairy Bacteriology* [Adviser

Henderson, D W, B Sc Glas

*Economics, v. also Accounting,*

*Law*

Hallsworth, H M, O B E, M.A.  
Manc, M Com D Dale Prof.

Jebb, Miss G. E. M., M.A. Lectr.

McCallum, E. D., M.A. Glas. „

Highton, H E R, M A Glas „

*Education*

Smith, Frank, M.A. Camb., B Sc.  
Manc, Ph.D. Wales Prof.

Melville, Ellen L, M A Leeds  
and Durh. Lectr.

Brown, V, O.B E, M Sc. Lectr.

Bailes, Stella, B.Sc. Lectr

Jeffreys, M. V. C., M.A. Ox. Lectr.

Hawthorn, Miss C. M., M A, B.Sc,  
Durh

Warden of Women's Hostel.

*Engin, Mechanical, Marine and  
Civil, v also Nav. Arch*

Hawkes, C J, M Sc, A M I C E.,  
M I N A, M I Mech E, R N

(ret'd) Prof.

Morrow, J, T.D, M Sc Manc and  
Durh., D Eng Liv. Reader

Hardy, G F, M Sc Lectr

Hall, J., M Sc. Lectr.

Dixon, J. T H, M Sc Lectr

Martin, H E L, B Sc Bris and  
Lond, A M I C E. Lectr.

Baker, H, M Sc Manc., Ph D.  
Birm Lectr.

Miller, C. V, B Sc. Lond. Lectr.

*Engineering, Electrical*

Thornton, W. M, O B E, D Sc  
Manc, Liv, and Durh,

D Eng Liv Prof.

Dickinson, J., M.A Ox, M Eng  
Sheff. Lectr.

Wilcken, J A, B Sc Copenhagen  
and Lond., Ph.D. La Plata

Lectr.

*English*

Renwick, W L, M A, D Litt  
Glas, B Litt Ox

J Cowen Prof.

Wragge, Sybil, M.A. Lectr.

Elmes, R S, B A. Camb. Lectr.

Orton, H, M A, B Litt Ox  
Lectr

*French, v Modern Langs*

*Geography* [Lectr.

Holmes, J, B Sc. Glas, F R G S.

*Geology, v. also Cryst.*

Hickling, H G. A, D.Sc Manc,  
M.Sc. J. B Simpson Prof.

Mockler, G. S., B Sc. Manc Lectr.

Allan, D. A., D.Sc, Ph.D Edin.  
Lectr.

Tomkeieff, Serge Lectr.

*History, Modern* [Prof.

Morison, J. L, M.A, D.Litt. Glas.  
Bradshaw, F., M.A Ox and Durh.,  
D Sc. Lond Lectr.

Crichton, Miss V. M. S, M.A. Ox.  
Lectr.

Cobban, A. B. C., M.A., Ph.D.  
Camb. Lectr.

*History, Ancient*, v. Classics

*Law*

Johnston, T. K., M.A., LL M  
Camb. Lectr

Charlesworth, J., LL D Lond,  
Bar-at-Law Asst Lectr

*Mathematics*

Havelock, T H, M A Camb,  
D Sc, F R S

Prof. and Director of  
Dept

Goldsbrough, G. R., D Sc

Prof and Reader in  
Dynamical Astronomy

Caunt, G W, M A Camb, M Sc  
Reader

Colborne, D C, M A Camb Lectr

Miles, W H, B A Ox Lectr

Mulholland, H P, B A Camb  
Lectr

*Metallurgy*

Smythe, J A, D Sc Durh, Ph D  
Gott Wm Cochrane Lectr

Pearson, C. E, M.Met. Sheff „

*Military Science* [Lectr

Bell, Capt L A Lynden, M C

*Mining* [Milburn Prof.

Poole, Granville, B Sc. Birm

Whetton, J. T, M C, M Sc Leeds  
Lectr.

Mason, G A, M B, B S

Lectr. in *First Aid*

*Modern Languages*

Girdlestone, C. M., M.A. Camb,  
L ès L. Paris

Prof of French and  
Director of Dept

Macgregor, Lillas, M A. Edin, D  
de l'U. Gren (Fr and Ger)

Lectr

Vallette, Jean, L ès L. Paris (Fr)

Lectr

Tomlinson, Mme. Lectr.

Atkinson, W., M A. Belf.

Lectr. (Spanish).

Cunningham, Kathleen, M A.  
(German).

*Music*

Whittaker, W. G, D Mus., F.R C.O.  
Lectr. and Reader in Choral M.

*Naval Architecture*

Abell, Sir Westcott S, K B E,  
M Eng. Prof

Alexander, F. H, M Sc, M I N.A  
Reader.

*Philosophy, Mental and Moral*

Harvey, J W, M A. Ox Prof

Alderson, Mrs J E, M A Aberd  
Lectr

*Physics*

Curtis, W. E, D Sc Lond

Prof. and Director of  
Dept.

Todd, G W, M A Camb., D Sc  
Birm, M Sc. Prof (Expl P).

Bullerwell, J W., M Sc Lectr

Lunnon, R G., M A., B Sc. Lond.,  
M.Sc. Lectr.

Wood, J. F, M Sc Lectr.

Darbyshire, O., M Sc. Manc. „

*Religious Knowledge*

Fletcher, M, M.A. Camb and  
Durh, M Sc Lectr

Fyffe, D, M A. Edin, D C L  
Lectr

*Secretarial Practice*

Arkless, J C, A C I S Lectr

*Veterinary Science*

Stewart, W. L., M R C.V.S  
Adviser.

*Zoology*, v also Agric [Prof.

Meek, A, B Sc. St And, D Sc

Bartlett, Mrs Olga M, M.Sc.  
Lectr.

Cooper, J Omer, M A Camb „

Storow, B, M Sc.

Naturalist at Marine Lab.

Bull, H O, B Sc Lond

Biologist at Marine Lab

Cowan, Mrs D

Librarian at Marine Lab

**University Extension**

Extra-Mural Organiser and Secre-  
tary of the Extension Board:

H E R. Highton, M.A Glas



## GENERAL INFORMATION

**LIBRARY**, 77,246 vols. Access to Lit. and Philos. Society's 100,000 vols., and to library of N. of England Inst.M.M.E. Scientific periodicals subscribed for in co-operation with City Public Library. Special libraries: English Bibles from 1535; Heslop, English dictionaries (277 vols.); Kieper, fifteenth to eighteenth-century printed books, mostly classics (600 vols.); Merz, philosophical and mathematical (2600 vols.); Spence Watson, early English texts (476 vols.), Indian History since Mogul times (925 vols.); Gilchrist Agricultural (700 vols.); Gertrude Bell, Oriental (1905 vols). **LABORATORIES** with special facilities for research in Engineering and Hydraulics; special branches of Chem., Physics, and Agric.; Marine Biology (Dove Marine Lab., Cullercoats).

The Agric. Dept. controls and uses for teaching and research in Agric., Dairying, and Forestry several County and Crown estates, including Cockle Park (Northumberland) Agric. Exptl. Station.

**ADMISSION.** See Appendices XX. and XXII. For admission to study for the College Diploma (i) in Agric, Mining, or Commerce, or for the Certificate in Fine Art, no regular entrance examn. is required; (ii.) in Engineering or Naval Architecture an entrance examn. must be passed unless the student has passed some equivalent examn. (School Certificate standard in Extra Maths, Mechanics, Physics, and Chemistry); (iii) in Fine Art an entrance examn. in English, and either French, or German, or Spanish is prescribed.

Complete **COURSES** for the Arts, Science, Law, and Commerce degrees and the Educn. Diploma of the Univ. The Applied Science courses are in Agriculture, Engineering (Mechanical, Marine, Civil, or Electrical), Naval Architecture, Mining, and Metallurgy. The Teachers' Training Dept. trains for both Elementary and Secondary School Work.

*College Diplomas* in Architecture (5 yrs.), Engineering (3 yrs.), Naval Architecture (3 yrs), Mining (2 yrs.), Agric. (3 yrs. of 2 terms each), Fine Art (4 yrs), Commerce (2 yrs.). *College Certificate* in Fine Art (4 yrs). Short courses are provided in Agric. (6 weeks and 6 months).

A *Tutorial System* is established in all Faculties. Each student is assigned on entry to a tutor, who is responsible for advising him on his course and generally looking after his interests.

**FELLOWSHIPS, ETC.** £300 for one year, open to a graduate in Science or Commerce, £150 for two years, open to a graduate of any Faculty; £150 for one year, open to a graduate in Science, £150 for one year, open to a graduate in Arts, £75 (two) studentships for one year, open to graduates of any Faculty. The total amount available for post-graduate fellowships, etc., is about £1800 p.a., including a Senior Research Fellowship established under the Research Fund (see next paragraph) of £400 p.a. available for one year.

**RESEARCH FUND** established in 1923 with endowment of £12,000 Administered by Standing Committees which allocate the interest of the fund as grants in aid of specific investigations by trained workers rather than for training persons in research.

Annual Tuition fee in courses for degree of B.A. or B.Com., £30; B.Sc., £35 (in Engin., etc., £40), and for Diploma in Agric, £22: 10s.; in Teaching, £35, in Engin, etc, £40, in Fine Arts, £16, in Commerce, £5: 10s. per subject (in evening classes, £3 a subject). Examns. for B.A. or B.Sc., £7; Students' Societies (men and women), £2: 2s. Registration Annual (Degree students and some others), £2.

**UNIVERSITY EXTENSION.** Public lectures in the College include the annual Earl Grey Memorial and W. H. Charlton lectures, occasional lectures and short

courses (winter programme issued in Oct.), lectures in French (Alliance Française), and popular Saturday evening lectures. Short courses in various centres in Agriculture and Forestry. Tutorial classes in 23 centres (most of the tutors are regular members of college staff).

PUBLICATIONS. *Calendar* (Sept.), 2s. 6d.; *Annual Report* (Oct.); *The Northerner* (Students'), 5 issues annually.

## THE YEAR 1927-28

BENEFACTIONS. From Sir W. J. Noble, Bart., £2000; Mr Howard Pease (bequest), £1000; Messrs. A. Reyrolle & Co. Ltd, £250, a further instalment from the Shipley Bequest, £272; friends of the late Prof. R. G. Hatton, £613, to be applied in providing a scholarship in Fine Art; friends of the late Prof. D. A. Gilchrist, £413, to be applied in providing a prize in Agriculture; Prof. Stroud, £108, to provide a prize in Physics.

RETIREMENTS AND RESIGNATIONS. Prof. C. M. Jessop (Mathematics); Prof. J. J. Welch (Naval Architecture). J. L. Davies (Agriculture), on appointment at Aberystwyth; J. H. Mackay (Forestry); J. K. Leven (Forestry); J. M. W. Reid (Sculpture), on appointment to Staff of West Ham Municipal College; J. Gilmour (First Aid); Major H. R. Gadd (Military Science).

EXTENSION WORK. Public lectures in the College included a series in French under the auspices of the Alliance Française; the Earl Grey Memorial Lecture on "The Idea of Memory in Biology," by Prof. E. W. MacBride, F.R.S.; the W. H. Charlton Lecture on "The Use of Material in Sculpture," by Mr. Alan Durst, and a series of Popular Saturday Evening Lectures throughout the winter by various members of the Staff

STUDENTS. Full-time, 701. Part-time, 384.

DEGREES OBTAINED. M.A., 12, B.A., 54; D.Sc., 3; Ph.D., 7, M.Sc. (Pure Science), 8; B.Sc. (Pure Science), 79, M.Sc. (Applied Science), 1; B.Sc. (Applied Science), 28; B.Com., 4; M.Com., 1.

# UNIVERSITY OF LEEDS

VISITOR—H.M. THE KING.

CHANCELLOR—His Grace the DUKE OF DEVONSHIRE, K.G., G.C.M.G.,  
G C V.O., LL D

PRO-CHANCELLOR—Col. C H. TETLEY, D.S O , M A

VICE-CHANCELLOR—J B BAILLIE, O.B.E , M A Camb , D.Phil. Edin.,  
LL D

PRO-VICE-CHANCELLOR—Prof. J. W COBB, C.B.E., B.Sc.

TREASURER—Hon R E BECKETT

DEANS OF FACULTIES. See under "General Information"—Faculties.

REGISTRAR—A E. WHEELER, M A

ACCOUNTANT—E J. BROWN, B Com.

CLERK TO THE SENATE—F. T. BAINES, B.A.

DEAN OF WOMEN STUDENTS—Miss A SILCOX, B Sc Lond

LIBRARIAN—R OFFOR, Ph D Lond

## PROFESSORS, LECTURERS, ETC.

<i>Agriculture</i> , v also Vct Hyg	Galt, A S (Hortic)
Seton, R S , B Sc Edin. Prof	Lectr and Organizer.
..... Lectr	Little, R. B , B Sc , N D A
Robertson, G C A , M C , M A ,	Nichols, H E , B Sc
B Sc Aberd Lectr	Stud Assts (Farm Costings).
Macdonald, G G , B Sc Aberd	Goode, C. W , N D.A , N D D
Hon Lectr.	Lectr (Poultry)
McGregor, J , B Sc Glas , N D.A.,	Nicoll, W B , B Sc Asst Lectr.
N D D	District Lectrs
Lectr (Dairy Husbandry)	Thompson, H., B Sc. Manc.
McVicar, A., B.Sc Glas , N D A ,	Strachan, J , M A., B Sc Aberd ,
N.D D	N D A
Asst Lectr (Dairy Hus-	Robb, J., B Sc. Aberd.
bandry)	Findlay, D. H., B.Sc , N D.A.,
	N D D.
Asst Lectr. (Dairy Husbandry).	Gibson, W S , B Sc
Ruston, A G , B A , B Sc Lond ,	Gelling, W E , B Sc , N D A
D.Sc. (Agric. Econ.) Lectr	10 Instrs. and Asst. Instrs in
Liversage, V , B Sc Lond , M Sc	Dairying, Hortic., Poultry,
Wis , N D A (Agric Econ )	Farnery, and Bee-keeping
Asst Lectr	<i>Agric Botany</i>
Preston, H., B Sc.	Millard, W A , B.Sc. Bris Lectr.
Asst. Lectr. (Agric. Eng )	Jones, A. Powell, M.Sc Asst. Lectr.
Dawe, C V , M Com.	Burr, S , M Sc. Asst. Lectr.
Asst. Lectr. (Agric Econ ).	Chalmers, C. H , B Sc. Edin ,
..... Asst. (Farm Costings).	N D.A. Asst. Lectr.

*Agric. Chemistry*

Comber, N. M., D.Sc. Lond.,  
A.R.C.S., F.I.C. Prof.  
Jones, H. Trefor, M.Sc., A.I.C.

Asst. Lectr

Willcox, J. S., B.Sc. Lond  
Marshall, C. E., M.Sc., Ph.D.

Asst Lectr

*Agric Zoology*

Taylor, T. H., M.A. R.U.I. Lectr.  
Johnson, L. R., B.Sc. Asst. Lectr.

*Anatomy*

[Prof

Jamieson, J. Kay, M.B., C.M.  
Edin (Dean of Med Fac)

Cave, A. J. E., M.B., Ch.B. Manc.  
Demr

Inkster, R. G., M.B., Ch.B. Edin  
Demr

Morton, W. C., C.B.E., M.A., M.D.  
Edin Hon Demr

Tasker, R. B., L.D.S., Hon. Demr.  
in A for Dental Students

*Bio-Chemistry, v. Physiol.**Botany*

Priestley, J. H., D.S.O., B.Sc.  
Lond, F.L.S. Prof

Wagei, H., D.Sc., F.R.S. (My-  
cology) Hon Lectr

Walker, N. (Morphol) Lectr  
Pearsall, W. H., D.Sc. Manc.

Reader

Scott, Lorna I., B.Sc. Lond.

Lectr.

Gane, R., Ph.D.

Demr (Plant Physiol)

Sledge, W. A., Ph.D., B.Sc.

Demr.

Gust, Mrs., B.Sc. Lond. Hon Demr  
Tupper-Carey, Miss R. M.

Research Asst.

*Chemistry, v. also Technology-  
Colour Chemistry*

Whytlaw-Gray, R. W., O.B.E.,  
Ph.D. Prof.

Usher, F. L., B.Sc.

Reader (Colloid Chem).

Lowson, W., B.Sc. Lond., B.Sc.,  
F.I.C. (Analyt. C.) Lectr

Gregory, J. C., B.Sc., F.I.C.,

Asst. Lectrs. and Demrs.:

Clark, C. H. D., M.Sc. Lond.

Hume, J., B.Sc., A.I.C.

Garrick, F. J., B.A. Ox.

Colvin, J., B.Sc., Ph.D. Liv Demr

Bradley, R. S., B.A. Camb Demr

Whitaker, H., M.Sc. (R).

*Chemistry, Physical*

Dawson, H. M., B.Sc. Lond., Ph.D.

Gies, D.Sc. Prof

Burr, Mrs. M. S., D.Sc. Lectr

Belton, J. W., Ph.D. Liv Demr

*Chemistry, Organic*

[Prof.

Ingold, C. K., D.Sc. Lond., F.R.S.

Baker, J. W., D.Sc. Lond. Lectr.

Burton, H., Ph.D. Lond., B.Sc.

Sheff Lectr

Dutt, P. K., M.A. Calc., M.Sc.,

A.I.C. Asst Lectr & Demr

Wightman, W. A., M.A. Ox

Asst Lectr & Demr.

Goss, F. R., Ph.D. Lond. Demr.

Rothstein, E., Ph.D. (R)

Ingold, Mrs. C. K., D.Sc. Lond

Hon Demr

*Chemistry Research*

Ellingworth, S., M.Sc. Asst

Cooper, K., Ph.D. Asst

*Classics*

[Prof (Greek)

Edwards, W. M., B.A. Ox

Stewart, H., C.M.G., D.S.O., M.A.

Camb. Prof (Latin).

Bibby, E. E., M.A. Camb. Lectr.

Binyon, D. E. F., B.A. Ox

Asst Lectr.

Symonds, H. E. Pt-time Lectr.

*Commerce, v. Economics**Dental Science, v. infra**Economics*

Jones, J. H., M.A. Wales Prof.

Shimmin, A. N., M.A. Manc. Lectr.

Dower, R. S., M.A. Camb. (Social

Organization) Lectr.

(R.) = Research Asst.

Taylor, J. R., M.A. (Ec. Hist.)

Lectr.

McCarmick, A (Acctcy.) Lectr.

Dickinson, H. D., M.A. Camb.

Asst. Lectr.

Wilson, Miss

Tutor.

### *Education*

Strong, J., C.B.E., M.A. Lond.,  
LL D. St. And. Prof.

Welpton, W. P., B.Sc. Lond.

Lectr.

Monahan, A J., M A Lectr.

Wynn-Jones, Ll., Ph.D. Leip.  
(Expl. E) Lectr.

Curtis, S. J., M.A. Lond.

Asst. M of Method

Blackburn, Eliz. M, M A.

Lectr. and M. of Method.

Robson, Winifred F, M.A. Liv.

Asst. M of Method.

Holgate, Jane, B A. Asst Lectr.

Newcomb, Edith, M.A. Asst. Lectr.

Petch, F., M Sc Asst. Lectr.

Hoggett, T. J., Mus B. Durh.

Music, etc.

### *Engineering, Civil and Mech.*

David, W. T, M.A., Sc.D. Camb.,  
D Sc. Wales, M.I.C.E.,

M I Mech E. Prof.

Gilchrist, J., B.Sc Edin., A M I C E.  
Lectr

Naylor, T. M., M.Sc. Manc.,  
A.M.I.C.E., A.M.I.Mech.E.

Lectr.

Colles, C, B Sc. Manc,  
A.M I.Mech.E. Asst. Lectr.

Davies, W., B.Sc. Wales

Asst Lectr

Richardson, S G. Asst. Lectr.

Abel, A. G., B Sc. St. And. Demr.

Evans, R. H., B Sc. Manc. Demr.

### *Engineering, Elec.*

[Prof

Wheatcroft, E. L. E., M.A. Camb.

French, W. E., A.M.I.C.E.,  
M.I.E.E. Lectr.

Stuart, W. S., M.Eng. Liv.

Asst. Lectr and Demr.

### *English Lang. and Lit.*

Abercrombie, Lascelles, M.A. Liv.  
Prof. (Lit ).

Gordon, E. V, M.A. Ox.

Prof. (Lang.).

Baxter, F. W., M.A. Ox. Lectr.

Wrenn, C L, M A Ox Lectr

Childe, W. R., M.A. Ox.

Asst. Lectr.

### *French (and Romance Philol.)*

Barbier, P., M.A. Lond. Prof.

Gunnell, Doris, M.A, D. de l'U.  
Paris Lectr.

Murray, Jessie, M A. St. And,  
D de l'Univ. Paris

Asst. Lectr

Inebnit, J P Asst. Lectr.

Benn, T. V., Ph.D.

Temp Asst. Lectr.

### *Geography*

Williamson, A. V., M A. Liv.

Lectr and Acting Head

Morgan, M. Kathleen, B.Sc. Wales

Asst. Lectr.

Henderson, H C. K, M A, B Sc

Asst Lectr.

### *Geology*

Gilligan, A, D Sc., F G S Prof.

Versey, H. C., M Sc. Lectr.

Hudson, R. G., M Sc. Lond,  
F.G.S. Asst Lectr.

..... Demr and (R )

### *German Lang. and Lit.*

Gough, C. E., Ph D. Basle Prof

Caldwell, Mary C., B.A.

Asst. Lectr.

Scott, Alice, M.A. Lond.

Asst. Lectr

### *Histology, v. Physiology*

### *History*

Thompson, A. Hamilton, M.A,  
D Litt, F B A, F S A Prof

Turberville, A. S., M C., M.A.,  
B.Litt. Ox. Reader.

Dainton, A. H, M.A. Ox.

Lectr.

Richardson, G. W., M.A. Lond.  
Asst. Lectr.

*History, Eccles.*

Underwood, A. C., M.A., B Litt.,  
D D. Lectr.

*Law*

Hughes, J. D. I., M.A., B.C.L. Ox.  
Prof

*Lectrs. :*

Haggen, G. L., M.A. Ox., B.C.L.

Burnill, H. R., LL.B. Lectr

Jennings, W. Ivor, B.A., LL.B.  
Camb Lectr

*Mathematics*

Milne, W. P., M.A. Camb., D.Sc.  
Aberd., M.A. Prof

Brodetsky, S., M.A. Camb., Ph.D.  
Leip. Prof (Appd Maths.).

Ingham, A. E., M.A. Camb  
Reader (Math Analysis).

Gilham, C. W., M.A. Camb., B.Sc.  
Lond Lectr

Smeal, G., B.Sc. Melb. (Graphics,  
etc.) Lectr

Stoneley, R., M.A. Camb.  
Lectr in Appl. M.

Gabriel, R. M., B.A. Camb  
Asst. Lectr

*Medicine and Surgery, v. infra*

*Metallurgy, v. Tech*

*Mining*

Ritson, J. A. S., D.S.O., B.Sc.  
Durh. Prof.

Brown, T., M.Sc.  
Lectr in Mine Surveying

Williamson, J. N., Ph.D., B.Sc.  
Edin. Asst Lectr

*Philosophy*

Gillespie, C. M., M.A. Ox. Prof  
Hallett, H. F., M.A. Edin  
Lectr.

*Physics*

Whiddington, R., M.A., D.Sc.  
Camb, F.R.S. Cavendish Prof.

Stoner, E. C., B.A., Ph.D. Camb.  
Reader

Allen, A. O., M.A., B.Sc. Lond.  
(Optics) Lectr

*Asst. Lectrs and Demrs. :*

Ewles, J., M.A. Camb

Long, F. A., B.Sc. Lond.

Pike, S. R., M.A. Ox.

Brown, D., B.Sc. Bris. Demr  
(R.).

2 Asst. Demrs.

*Physiology and Histology*

McSwiney, B. A., B.A., Sc.D.,  
M.B., Ch.B. Dubl. Prof

Winfield, G., M.A. Camb Lectr

Wormall, A., B.Sc. (Bio-Chem.),  
A.I.C. Lectr

Davies, H. W., M.B., B.S. Ade-  
laide Lectr.

Marshall, P. G., M.Sc.  
Demr. (Bio-Chem.)

Brown, C. L., M.Sc., M.B., Ch.B.  
Manc

Demr in Comp Phys.  
Wadge, W. Joan, B.A. Camb.  
(R.).

Flint, E. R., M.B., Ch.B., F.R.C.S.  
(H) (C)

*Russian Lang. and Lit.*

..... Prof  
Koln-Balozky, J. Lectr

*Russian History and Music*

Frere, W. H., D.D. Hon. Demr.

*Spanish Lang and Lit*

..... Prof  
Penzol, P. Lectr

de Irizar, Augustin Asst. Lectr.

*Technology, v. infra*

*Veterinary Hygiene*

Bowes, H. G., F.R.C.V.S. Lectr

Zoology, v. also Agric. [Prof  
Garstang, W., M.A., D.Sc. Ox

King, Mrs W. O. R., B.Sc.  
Asst Lectr. & Demr.

Henson, H., B.Sc. Birm  
Asst. Lectr. & Demr.

Glover, P. M., B.Sc. Demr.  
Platt, Margery, M.Sc.  
Asst Demr. & Curator (R.).

(C.)=Clinical Lectr.

(R.)=Research Asst.

**Medicine** (for subjects of first 2 yrs —Anat, etc, v. *supra*)

*Anæsthetics*

Rowling, S. T., M.B. Vict.,  
M.D. Lectr.

*Bacteriology*, v. Path.

*Cancer*, v. Path.

*Forensic Med.*

Eurich, F. W., M.D., C.M. Edin.  
Prof

*Gynæcology*, v. also Obst.

Gough, W., B.Sc., M.B., B.S.  
Lond, F.R.C.S. Lectr. (C).  
..... Hon Demr. (C).

*Infectious Diseases*

Anderson, J. S., M.A., M.D.,  
D.P.H. Aber. (C)

*Materia Med*, v. Therap

*Medicine and Clin Med.*

Telling, W. H. Maxwell, M.D., B.S.  
Lond, F.R.C.P. (C) Prof

Watson, G. W., M.D. Lond,  
F.R.C.P. (C) Prof

Vining, C. W., M.D. Lond, D.P.H.  
Prof (Diseases of Children)

Ingram, J. T., M.D.  
Lectr (Dis of the Skin).

Moll, H. H., M.D.

Med Tutor and Registrar  
Walker, G. F., M.D.

*Mental Diseases*

Bolton, J. S., M.D., D.Sc. Lond,  
F.R.C.P. Prof

*Obstetrics and Gynæcology*

Oldfield, C., M.D. Lond, F.R.C.S.  
(C) Prof.

Young, W. M., M.A., M.D. Glas  
(C).

Adamson, Mrs. R., M.D., B.S.  
Lond. Lectr. (Obst) (C).

Croft, E. O., M.D. Durh (C).

Claye, A. M., M.B., Ch.B. Tutor.

*Ophthalmology*

Lee, H., B.A., M.B., B.Ch. Camb.,  
F.R.C.S. (C) Lectr.

Lodge, S. D., F.R.C.S. (C) Lectr.

*Otology*

Bain, E. W., M.B., B.S. Lond,  
F.R.C.S. (C) Lectr.

Munby, W. M., Ch.M. Edin.,  
F.R.C.S. (C).

*Pathology and Bacteriology*

Stewart, M. J., M.B., Ch.B. Glas,  
F.R.C.P. (C) Prof.

McLeod, J. W., O.B.E., M.B.,  
Ch.B. Glas.

Brotherton Prof. of B.

Passey, R. D., M.C., M.D., B.S.,  
D.P.H. Lond

Prof. Exper Path. and  
Dir. *Cancer Research*.

Fowweather, F. S., M.D., M.Sc.  
Liv, D.P.H.

Lectr. (Chem. Path.).

Gordon, J., M.D., D.P.H.  
Lectr in B.

Polson, C. J., M.B., Ch.B. Birm  
Lectr in P

Sutherland, P. L., M.B., Ch.B.  
Glas, D.Sc.

Lectr (Path of *Indus-  
trial Diseases*)

Happold, F. C., M.Sc. Manc  
Demr.

Hickman, Miss E. M., M.Sc., M.D.  
Demr.

Wheatley, Bertha, M.B., Ch.B.  
Demr.

Garland, H. G., M.B., Ch.B. "

Cattley, R., M.B., C.M. Edin,  
B.Sc., D.P.H. Camb  
Hon Fellow.

Burrow, J. le F. C., M.B. Edin. (C).  
Hon Demr. in Med. P.

Richardson, A., M.B., B.Sc. Lond.,  
F.R.C.S. Hon Demr in Surg P.

Stewart, Mrs., M.B., B.S. Lond.  
Hon Demr.

Phelon, H. V., M.B., Ch.B.,  
M.R.C.P. Hon Demr.

Young, J. S., M.B., Ch.B. Glas.  
Lectr. in Exp. Path. and

Asst. Dir. of *Cancer  
Research*.

(C.)=Clinical Lectr.

Channon, H. J., M Sc. Lond.  
Lectr. (Bio-Chem.).

Bonser, Mrs K J  
Cancer Fellow.

Collinson, G. A , M.Sc.  
Cancer Fellow.

Berenblum, I , B Sc , M.B , Ch B.  
Cancer Fellow

Shaw, G H , M B Glas  
Cancer Fellow

Gross, Desirée, M B , Ch.B.  
Pt Asst Cancer Research.

#### *Pharmacology*

..... Hon. Demr

*Pharmacy, v. Therap.*

*Public Health, v. also Path.*

Jervis, J. J , M D. Edin , D P H  
Lond Prof of P H Admn

Massey, A , M D , D P H  
Hon Demr

*Radiology and Electro-Therapeutics* [Lectr

Scargill, H. B , M.B , B S Lond.

Cooper, G , B A., M.D Belf. Lectr.

*Surgery and Clin Surg*

Dobson, J F., M.S. Lond.,  
F R C S Prof

Armitage, G , M C , M.B , Ch.M ,  
F.R.C.S. Surg. Tutor

Holmes, E , M B , Ch B  
Surg Tutor

Daw, S. W., M.B. B S Lond ,  
F.R.C.S. Lectr.in Orth S.(C)

Braithwaite, L. R., M.B. Manc.,  
F.R.C.S.

Director of Surg. Re-  
search (C.).

*Surgery, Chmical*

Collinson, H , C B., C.M.G., D.S.O.,  
T.D , M B , M.S. Lond.,  
F.R.C.S. Prof.

Moir, P. J., M.C., M.B., Ch.B.,  
F.R.C.S. Lectr. (C).

Symons, H W., M B., Ch.B.,  
F.R.C.S. Lectr. (C).

Chamberlain, D , M.B , Ch M ,  
F R C S. Lectr. (C).

*Therapeutics, Pharm , and Mat.  
Med*

Veale, R. A., B.A. Ox., M.D.  
Lond., F.R.C P.

(Lectr. in Clin. Med ) Prof.

Anning, J. J., A S A.  
Lectr. Pharm. and Mat. Med.

*Vaccination*

Greaves, F. W. M , M B Manc ,  
D.P H Instr

*Venereal Diseases*

Bibby, J P , M B , Ch B (C)

#### *Dental Science*

*Dental Anatomy and Physiology*

Mawer, J.W., L.D.S. Lectr. & (C.).

*Dental Mechanics*

Thorburn, W S , L.D S. (C).

Watt, G. V., L.D.S. Tutor

*Dental Metallurgy*

Lowson, W., B Sc Lond , B.Sc ,  
F I C Lectr.

*Dental Pathology & Bacteriology*

Baxter, G R , M B , Ch B ,  
B Ch.D , D P H Demr

*Dental Radiology*

Scargill, H B , M B , B.S. Lectr

*Dental Histology*

Russell, G H H , M B , Ch B  
Manc (C).

*Dental Surgery* [(C).

Child, C H , M B.E , D D S , L.D S.

Hey, S D., L.D.S Lectr. & (C).

*Other Lecturers.*

Leigh, P. T., L.D.S (C)

Marston, W., L.D.S. (C.).

Iles, G. D , L D.S. (C).

Wilkinson, G. L., L.D.S. (C).

Harris, W. S., L.D.S. (C.).

Crawford, J K , L D S (C).

Watt, G V , L.D S Tutor.

4 Hony. Clin. Tutors

*Hon. Anæsthetists :*

Legge, J. H., M.B., B.S., B Sc.  
Lond.

(C.)=Clinical Lectr.



Sykes, W. S., M.B., Ch.B. Camb.,  
D.P.H.

*Dentistry, Clinical*

Roberts, G. L., M.B., Ch.B.,  
B.D.S. Liv Tutor  
Gledhill, I., L.D.S. Prosth. Demr.

**Technology**, v. also Agr., Engin.,  
Mining

*Coal, Gas, and Fuel Industries  
with Metallurgy*

Cobb, J. W., C.B.E., B.Sc. Lond.,  
B.Sc., F.I.C. Livesey Prof.  
Hoddsman, H. J., M.B.E., M.Sc.,  
F.I.C. (Gas Chem) Lectr  
Sugden, J. A., Ph.D. (Refractory  
Materials) (R) & Demr  
Summers, P. F., A.R.S.M. (Metall)  
Asst Lectr

Research Chemists

Wood, J. W., M.Sc. Tech. Manc.,  
A.I.C. (Gas Research).

Parker, A., D.Sc. Birm., M.Sc.,  
F.I.C. (Gas Research).

Kerr, H. (Gas Research), A.I.C.

Monkhouse, A. C., Ph.D., A.I.C.  
(Gas Research).

Howarth, G. B., M.Sc., A.I.C. (Gas  
Research).

Hoffert, W. H., M.A., B.Sc. Ox.,  
A.I.C. (Benzole Research).

Claxton, G., M.Sc. (Benzole Re-  
search).

Marson, C. B., Ph.D., M.Sc., A.I.C.

*Colour Chemistry and Dyeing*

Rowe, F. M., D.Sc., F.I.C. Prof.

Forster, R. B., Ph.D., D.Sc.,  
F.I.C., A.R.C.S.I.,

Lectr. in Colour Chem.

King, P. E. (Dyeing) A.I.C. Lectr

Cross, E. J., B.Sc. Asst. Lectr.

Levin, Esther, M.Sc. (R.).

*Leather Industries*

McCandlish, D., M.Sc. (Applied  
Chem.) Prof.

Atkin, W. R., M.Sc. Lectr.

Thompson, F. C., M.Sc. Lectr.

..... (R)

Procter International Research  
Laboratory:

..... Hon. Director.

Thompson, F. C., M.Sc. (R).

*Textile Industries*

Barker, A. F., M.Sc. Prof.

Hollis, T. Lectr.

Yewdall, A. Lectr

Pickles, F. Lectr

Speakman, J. B., M.Sc. Manc. „

Astbury, W. T., B.A. Camb „

Farley, W. A. Asst Lectr.

Priestley, G. Asst. Lectr.

Woods, H. J., B.A. Ox (R).

**University Extension**

Staff Tutors. Dainton, A. H.,

M.A. Ox., Gibson, G. W.,

M.A., Shimmmin, A. N., M.A.

Manc.; Stewart, D., M.A.

N.U.I., Taylor, J. R., M.A.

Edin., Walker, N.; Williams,

J. R., B.A.

(R.) = Research Asst.

**AFFILIATED COLLEGES**

COLLEGE OF THE RESURRECTION, MIRFIELD (Warden—G. Rees, M.A.)  
and RAWDON COLLEGE (Principal—A. C. Underwood, D.D.). Students  
are exempt from attendance at the Univ. in the first of the 3 yrs. of study for  
the B.A. degree.

TECHNICAL COLLEGE, HUDDERSFIELD (Prin.—J. F. Hudson, M.A., B.Sc.).  
Similar exemption for B.A., B.Sc. (including Engin.), and M.B. and Ch.B.

DIOCESAN TRAINING COLLEGE, YORK. Similar exemption for the B.A.  
and B.Sc.

PRINTING DEPARTMENT OF THE LEEDS CENTRAL TECHNICAL SCHOOL. Affiliation granted with a view to the recognition of classes as part of the course for the degree of B.Com.

## GENERAL INFORMATION

The Leeds School of Medicine, founded 1831, and Yorkshire College, established as a College of Science in 1874, were united in 1884. The College formed part of the Victoria Univ. from 1887 to 1904, when a Univ. was established by Royal Charter in the city of Leeds.

**LIBRARY**, including that of the Medical School, about 98,000 books, 24,000 pamphlets. Besides the General Library, there are separate rooms devoted to Science, English, French, German, Classics, Economics, Philosophy, History, Law and Music. Special collections: (a) MSS. about Broad Cloth Act of 1740 and illustrating developments in textile industry about 1800; (b) 500 vols. in French on Great Britain, printed before 1801; (c) 264 vols. contemporary records (Journal Officiel, newspapers of Metz, Strasbourg, and Nancy, etc.) of political events in France during 1870 and 1871.

**MUSEUMS** Anatomy, Dyeing, Materia Med., Path., Textile, Zool. **LABORATORIES**. Agricultural Chemistry, Botany, Chemistry, Colour Chem. and Dyeing, Engin. (Elec., Civ., Mech.), Geol., Leather Industries (including Procter Internat. Research), Maths., Metallurgy, Mining, Path. and Bacteriology, Cancer, Physics, Physiol., Textile (116 looms), Zool. **OBSERVATORY**, 18½" reflector telescope. **FARM**, 312 acres, including Dairy School, Research farm, 350 acres, near Scarborough. **HOSPITALS** available for Clinics. Infirmary (520 beds) and several others; Asylum (2000 inmates).

**FACULTIES**. Arts (including Economics and Law), Science, Technology [including Agric., Coal Gas and Fuel with Metallurgy, Colour Chemistry and Dyeing, Engineering (Civ., Elec., Mech.), Leather Industries, Mining, Textile Industries], Medicine (including Dentistry). *Deans*: Profs. Strong (Educn.), Milne (Science), David (Technology), Jamieson (Medicine).

In connexion with each of the technological departments there is an Advisory Committee, which includes representatives of the industry concerned.

**MATRICULATION**. See Appendices XX. and XXII. An *Overseas Students'* Committee has been appointed.

**DEGREES**. Obtainable after a 3 yrs.' course starting from matricn.—B.A., B.Sc. (Honours degree usually 4 years), B.Com. (which may be taken with an Applied Science as one of the principal subjects—3 yrs. for degree, or 4 yrs. including Diploma of Printing Dept. of Leeds Tech. Sch.), LL.B., after 5½ to 6 yrs., M.B., Ch.B., B.Ch.D.

Subject to a minimum attendance in this Univ. of 2 yrs., members of other Univs. requiring residence as a condition of graduation may be permitted to count their studies and examns. (other than the Final examn.) therein towards graduation in Leeds.

*Mining* students receive practical instruction in mines under arrangements made with local owners, but the courses are not intended to supersede the usual apprenticeship.

Honours students of (1) French and (2) German normally spend the 3rd term of the 2nd year at (1) the Univ. of Caen, (2) a Univ. where the medium of intercourse is German.

Honours in Gas Engineering or Fuel and Metallurgy involve 1 yr. of research or special study after taking the ordinary degree; in Leather Manuf., 4 yrs.' study.

Supplementary Textile studies may be combined with a B.A. or B.Com. course. Any of the Tech. subjects may be taken in a B.Sc. course. The Law Dept. prepares students for the Bar and Solicitors' exams, as well as for the Univ. degrees.

**HIGHER DEGREES** M.A., LL.M., M.Com., M.D., Ch.M., 1 yr.; M.Ed., M.Sc., 2 yrs. (for holders of Hons. B.Sc., 1 yr.) after the bachelorship. Graduates of approved Univs. (all the chief Univs. of the world, including institutions recognized by the Assocn. of Amer. Univs., v. App. XXIV.) may obtain the M.A., Ph.D. (v. p. 18), or M.Sc. by 2 yrs. of research. M.A., Ph.D. or M.Sc. of this Univ. may obtain the Litt D. or D.Sc. 6 yrs. after the bachelorship.

Graduates of other Univs. who have been admitted to degrees of equal or similar rank in Leeds may, in proceeding to higher degrees, count their standing as graduates from the date of original graduation.

**DIPLOMAS.** In Education (grads.) or Ed. Admn., 1 or 2 yrs. In Social Organization and Public Service, 2 yrs. In Engin., Fuel and Metall., Dyeing, Textiles, Leather, 3 yrs, reducible under certain conditions to 2. In Gas Engin. or Fuel and Metall., special for graduates, 1 yr.; for apprentices, part-time, 4 yrs. In Colour Chem. and Dyeing, for apprentices, part-time, 5 yrs. In Public Health, 12 mos. In Psych. Med., 6 mos. In Nursing, involving 4 yrs.' hospital training and 3 mos.' lectures. In Dent. Surg., 4 yrs., including 2 in Univ. In Commerce, 1 yr (postgrad)

Agric Students are prepared for the National Diploma.

**EVENING COURSES** for advanced students in Technological subjects are conducted in co-operation with the Leeds and West Riding Education Committees.

**FEES.** Matricn, £2. Registration, £2. Composition fees for tuition (including Union) : Arts, £33 a session; Science, £41; Technology, £45; Agric. (other than degree students, who pay the Technol. fee in the 2nd and 3rd yrs), winter course, £20, summer course, £10; Law courses, 11 gs. a session. Course for Dipl in Educn., £42 p a., Dipl. in Social Organization, £26 p a. Medicine: complete course for M.B., including hospl. practice, £215. Dentistry (including hospl. practice and pupilage). Dipl., £234, Degree, £252 (under revision). Research fee, £12 a session. Exams. : Arts, Science, etc., £6; Medicine (including graduation), £18, Dentistry, B Ch.D., £16; L.D.S., £16. Graduation fee, £7.

**SCHOLARSHIPS, ETC., FOR GRADUATES.** Fellowships, £200 for one year, renewable, for research in Gas, and £100, renewable, in Col. Chem., £150 for 3 yrs. for Textile Research (preference to graduates in Science or Tech. and to natives or residents of Bradford, but not restricted to members of Leeds Univ.); also £150 for 2 yrs for research and advanced study; £150 for 2 yrs. for research in English, or History, or Economics, £70 Scholp. for research in Arts Faculty; £125 for higher Humanistic study, for graduates of Leeds or Sheffield, £45 for advanced study in Greek or Latin; £60, Colour Chem. and Dyeing; £20 (three), in Textile Dept.; £25, Forensic Med and Hygiene.

**RESIDENCE.** One hostel for 120 men and 4 for women. Fees, men £64, women £54 to £63 per session of 32 weeks. A site of 160 acres on the outskirts of the city has been acquired for hostels for men and women students.

An OLD STUDENTS' ASSOCN. was formed in 1923.

**UNIVERSITY EXTENSION.** Lecture courses and Tutorial classes are provided in co-operation with the Workers' Educnl. Assocn. and Local Education Authorities, and an Annual Summer School in connexion therewith was instituted in 1919.

Summer Schools are arranged from time to time.

In connexion with the Agric. Dept. a considerable part of the time of lecturers of the Univ. is devoted to work in local centres.

PUBLICATIONS. *Calendar* (Sept.), 4s.; *The Training of Professional Engineers*; Annual Reports of the Univ. and of Tech. Depts.; *Gryphon*, 3s. annually (students' magazine), *Union Handbook*; General prospectus and prospectuses of various Depts.

## THE YEAR 1927-28

BENEFACTIONS. £3000 a year for four years from Clothworkers' Co. for research in Textile Dept. Funds for Mining scholarship of £150 a year given by Messrs Briggs, Son & Co. "Richard Reynolds Scholarship" of £100 a year under the will of Alderman F. C. Clayton. Portrait by Richard Jack of Emeritus Prof. A. G. Perkin presented by the Perkin Memorial Committee. £100 from Dr. Charles Rippon for silver medal for dentistry. Valuable machinery to Textile Department and books, etc., to the Library.

NEW BUILDINGS AND EQUIPMENT. Foundation stone of new buildings laid on Oct. 2. New building for Mining Dept. and extension of Medical School in progress. Oxley Hall now in occupation. Extension of Textile Dept. opened in October. New Dental School and Hospital in occupation.

NEW POSTS. Two Lectureships and two Assistants in Textile Dept.; part-time Lecturer in Classics.

CHANGES IN REGULATIONS, ETC. Six new Honours Schools instituted in the Faculty of Arts. Diploma in Agriculture instituted. Various amendments of Ordinances and Regulations.

UNIVERSITY EXTENSION COURSES at 10 centres, 47 Tutorial Classes; Tutorial Class Summer School at Great Ayton, Course of public lectures on "Leading Problems in the History of Jesus," by the Rev. C. J. Cadoux. Six lectures by Prof. Gilligan on "Geology—Old and New," and six by Prof. Brodetsky on "Gravitation", 14 separate public lectures on science, music, literature, etc.; 11 midday music recitals, over 600 lectures given in county by Agricultural Department in addition to 10 organized courses in Agriculture, Horticulture, etc., and 35 ten days' courses in butter- and cheese-making.

OTHER DEVELOPMENTS AND SPECIAL EVENTS. Emeritus Professorship conferred upon ex-Prof. Grant. Experimental farm acquired for Cancer research. Regent Court and four acres of land bought for development of men's hostels. British Dental Association met in Leeds, August 1928.

CHANGES IN PROFESSORIAL STAFF. W. M. Edwards appointed Prof. of Greek in succession to Prof. Ormerod (resigned); Dr. Vining appointed Prof. in Diseases of Children (new post).

HONORARY DEGREES. LL.D.—The Hon. J. H. Whitley, M.P., Mrs. Kitson Clark. D.Litt.—C. T. Onions. Ph.D.—C. Rippon. M.Sc.—W. S. Thorburn, W. Marston.

STUDENTS. Full-time: total, 1296, including 159 graduates. Part-time, 194, including 34 graduates.

DEGREES. B.A., 84; M.A., 13; B.Com., 7; LL.B., 7; LL.M., 1; B.Sc., 109; M.Sc., 6; M.B., Ch.B., 25; M.D., 4; M.Ed., 7; Ph.D., 11.

# UNIVERSITY OF LIVERPOOL

VISITOR—H M THE KING.

CHANCELLOR—Rt. Hon. the EARL OF DERBY, K.G., G.C.B., G.C.V.O., LL.D.

PRO-CHANCELLORS—H. R. RATHBONE, M A, LL.D.; H. WADE DEACON, C.B.E.

VICE-CHANCELLOR—H J W. HETHERINGTON, M.A., LL.D.

TREASURER—C. SYDNEY JONES, M A.

DEANS OF FACULTIES. See under "General Information"—Faculties.

REGISTRAR—EDWARD CAREY, LL.B.

BURSAR AND ASSISTANT REGISTRAR—S PRYCE PARRY, M A.

LIBRARIAN—Associate Prof. W. G JONES, M.A.

## PROFESSORS, LECTURERS, ETC.

<i>Anatomy</i>	[Derby Prof	Reilly, C. H, O B E, M.A Camb,
Wood, W H, B Sc, M D Manc.	F R I B A.	Roscoe Prof
Nuttall, H C W., F.R.C.S.,	Budden, L. B, M A Assoc. Prof.	
D P H.	Marshall, J E., B Arch Sr Lectr.	
Lectr. (Applied Surg A)	Cole, E R. F, B Arch. Lectr.	
Johnson, W., M.D. Lond, F.R.C.P	Scott, Sir Giles G., LL.D., R.A,	
Lectr. (Applied Med A.)	F R I B.A. (Eccl Archit.)	
Harper, A. D, M.B, Ch B. Lectr.		Reader.
Jones, J. Tudor, M.B, Ch B.	Miller, B A, B Arch Lectr	
Lectr	Dougill, W., M A., B Arch. Lectr.	
<i>Archæology</i> , v also Palæog and	Bridgwater, D. L., B.Arch. Lectr.	
Associated Institutions	Allen, C. J. (Modelling)	
Droop, J. P., M.A. Camb. (Classi-	Recog. Teacher.	
cal A.) C. W. Jones Prof.	Brooke, D, M A, B Arch Lectr.	
Peet, T. E, M.A. Ox (Egyptology)	Velarde, F X., Dipl Arch	
Brunner Prof.	Ellerton, E M K	
Garstang, J., M A., D.Sc., B.Litt.	Nunn, J P, B A	
Ox., F.S.A. (Methods and	Penn, W. C., R.O.I. (Drawing	
Practice of A) Rankin Prof.	from the Life)	Instr.
Barnard, F. P., M A., D Litt. Ox,	Smith, H. Tyson	
F S.A. (Mediaeval A.) Reader.	Hon. Instr. in Craftsmanship.	
Newberry, P. E., M.A. (Egyptian	<i>Art of the Theatre</i>	
Art)	Armstrong, W	Shute Lectr.
<i>Architecture</i> , v. also Civ. Design,	<i>Astronomy</i>	
Engin.	.....	Reader.

*Bacteriology*, v. Med*Bio-Chemistry*

Ramsden, W., M.A., D.M. Ox.  
Johnston Prof.  
Coope, R., M.D., Ch.B., B.Sc.  
(Clin. Chem.) Lectr.  
Earlam, L., M.B., Ch.B.  
Johnston Colonial Fellow.

*Botany*

Thompson, J. McLean, M.A., D.Sc.  
Glas., F.L.S.  
H. Gaskell Prof.  
Knight, Margery, D.Sc., F.L.S.  
Sr Lectr

## Demrs and Lectrs.:

Stirling, J., B.Sc. St. And.  
Mathias, W. T., M.Sc.  
Horton, W.

Hon. Lectr. in Plant Path.

*Chemistry*, v also Bio-C.

Baly, E. C. C., C.B.E., M.Sc.,  
F.R.S. (Inorg. C) Grant Prof.  
Heilbron, I. M., Ph.D. Leip., D.Sc.  
Glas., F.I.C.

H. Harrison Prof. (Org. C)  
Lewis, W. C. McC., M.A. Belt,  
D.Sc., F.R.S., F.Inst. P.  
(Physical C) Brunner Prof.  
Hilditch, T. P., D.Sc.

Campbell-Brown Prof.  
(Industrial Chem —  
Fats, Waxes and Oils).

## Senr Lectrs.:

Kay, F. W., M.Sc. Manc., Ph.D.  
Berl. (Applied Organic C)  
Guthrie, F. C., M.A., F.I.C. (Ana-  
lytical).

## Lectrs and Demis.:

Edwards, D. M., B.Sc. (Inorg.)  
Griffith, R. O., D.Sc., (Phys.)  
Shutt, W. J., M.Sc. (Phys.)  
M'Keown, A., D.Sc. (Phys.)  
Doran, W., M.Sc. (Organ.)  
Keffler, L. P. G., M.Sc. (Inorg.)  
Nance, J. T., M.A. (Inorg.)  
Occleshaw, V. J., M.Sc. (Inorg.)  
Morton, R. A., Ph.D., D.Sc.

McGookin, A., Ph.D., B.Sc. (App.  
Org.).

Rogerson, H., M.Sc. Vict., F.I.C.  
(Inorg.) Demr.

*Chemistry, Pub Health*

Roberts, W. H., M.Sc., F.I.C.  
Assoc. Prof.  
Jones, E. Gabriel, M.Sc., F.I.C.  
Smith, F. J., B.Sc. Lectrs.

*Civic Design* [Lever Prof.  
Abercrombie, L. P., M.A.

## Special Lectrs.:

Prof. Hope (Hygiene).  
Frank, T. Pearson, M.Inst. C.E.,  
F.S.I. (Civic Engin.)  
Baxter, R. G., M.A., Assoc.  
M.Inst. C.E., P.A.S.I. (Civic  
Engin.)

Kelly, S. A., F.S.I. (Civic Engin.).  
Mattocks, R. H., M.T.P.I. (Land-  
scape Design)

Clarke, J. J., M.A., Barr-at-Law  
(Law of Housing and Town  
Planning)

Dougill, W., M.A., B.Arch.,  
A.R.I.B.A. Research Fellow.

*Classics*

Campbell, A. Y., M.A. Camb.  
(Greek) Gladstone Prof.  
Fletcher, G. B. A., B.A.

Junr Lectr  
Slater, D. A., M.A. Ox. (Latin) Prof.  
Chapman, Dorothy, M.A. St. And.  
Spl. Lectr. (Latin).

Noble, P. S., M.A. Aberd., B.A.  
Camb. Lectr. (Latin).

Onians, R. B., M.A., Ph.D.  
Lectr. (Latin).

*Commerce* [Chaddock Prof.

Dewsnup, E. R., M.A. Manc.  
Dumbell, S., M.A. Lectr.  
Miller, Margaret S., M.A., B.Com.,  
Ph.D. Lectr.

Taggart, P., F.S.A. (Accountancy)  
Spl. Lectr.

Williams, A. (Banking) Spl. Lectr.  
Irving, N. (Ind. Traffic Manage-  
ment) Spl. Lectr.

*Dentistry, v. infra**Economic Science, v. also Com.*

..... Brunner Prof.  
 Macdonald, R. A., M.A.

Lectr. in charge.

Morris, J. H., B Sc. Lond. (Econ.)

Temp. Lectr. in Ec Hist.

Parry, Eliza A., M A Tutor

*Education, v. also Hist., Physics*

Campagnac, E T., M A. Ox. Prof.

Senr. Lectrs.

Paget, G. W., M A. Camb.

Brigstocke, W. O., B.A. Lond.

Lectrs. :

Collie, Frances A., M A Wales

Kermode, Helen S., M A

Attlee, C. M., B.A. Ox.

Titley, A F., B Sc., Ph D.

Pollitt, A W., Mus Doc., F R C O

Teachers of Drawing :

Laverock, Florence.

Cameron, Elizabeth L.

Assts in Method

Beszant, C F.

Milne, Susan.

*Engineering, v. infra**English Lang and Philol*

Mawer, A., M A Camb and  
 Durh Baines Prof

Schram, O K., M A (Wales),  
 Ph D (Camb) Jr Lectr.

*English Lit.*

..... King Alfred Prof

..... A. C Bradley Prof.

Martin, L. C., B Litt. Ox., M.A.

Senr. Lectr

Shawcross, J., M A Ox. Lectr.

Trenery, Grace R., M A. Lectr.

Porter, Enid H., M.A. Jr. Lectr.

Jones, Doris C., M A Tutor

*Entomology* [Dutton Prof.

Patton, W. S., M B, Ch B.

Evans, Alwen M., M.Sc Lectr

*Fisheries, v. Ocean**French* [J. Barrow Prof.

Eggh, J. E., Ag des L., D ès L

Renault, G. E., B. ès A. Dijon

Senr. Lectr

Mayoux, J., Ag. d'Ang. Lectr.

Wright, Jean, M A. Jr Lectr.

3 French Tutors.

*Geography, v. also Geol.*

Roxby, P. M., B A. Ox

Rankin Prof.

Winchester, Lily, M A, F R. Met S

Lectr.

Smith, W., M A Jr Lectr

Baker, S. J K., B A. Tutor

Ellerton, M. K., Cartographer

*Geology* [Herdman Prof

Boswell, P. G. H., O B.E., D Sc.  
 Lond.

(Lectr. in *Geo-Morphology*)

Double, I. S., M.Sc

Lectr &amp; Demr.

Neaverson, E., D Sc. (Palæont)

Lectr &amp; Demr.

*German*

Collinson, W. E., M A. Lond,

Ph.D. (also Hon. Lectr. in

Comp. Philol) Prof.

Picton, Ænnd, B A Wales

Lectr

*Hebrew, v. Affild Instns.**Hellenistic Gk., v Affild. Instns**History*

Jones, W. Garmon, M A (Spl.

Lectr. in *Educn*) Assoc Prof.*Hist., Ancient*

Ormerod, H A, M C, M A Ox.

Rathbone Prof.

*History, Eccl, v Affild. Instns.**History, Mediæval*

Coopland, G. W., B Sc. Lond.,

M A., Litt.D. Assoc. Prof.

McKisack, May, M A., B Litt. Ox.

Jr. Lectr.

*History, Modern*

Veitch, G. S., M A, Litt D.

A. Geddes &amp; J. Rankin Prof.

Routledge, F. J., B Litt. Ox., M.A.

Lectr.

Howden, Marjorie P., M.A. Lectr.

Betts, R R., B A. Ox. Lectr.

*Italian*

Praz, Mario, D.Litt Florence,  
Dr. Jur. Rome Senr. Lectr.

*Law, v. also Civic and Engin*

Bleasé, W. Lyon, LL.M., Barr-at-  
Law Q Vict Prof.

Batt, F. R., LL.M., Barr-at-Law  
(Comm. L.) Prof.

Shawcross, H. W., Barr-at-Law  
Warr Mem Lectr.

Brown, H., B.A., LL.B. (History  
of English Law, etc.) Lectr.

Thomas, H. H., Judge A. P., B.A.,  
LL.D. Lond. (Internat. L.)

Hon. Prof

*Mathematics* [Prof. (Pure M.)]

Burkill, J. C., M.A. Camb

Proudman, J., M.A. Camb, D.Sc.,  
F.R.S. (Applied M.) Prof

Hargreaves, R., M.A. Camb. (Ap-  
plied M.) Reader.

Street, R. O., M.A. Camb, M.Sc.  
(Applied M.) Sr. Lectr.

Doodson, A. T., D.Sc. (Analysis  
of Observations) Hon. Lectr.

Wilson, B. M., M.A. Camb. D.Sc.  
Lectr. (Pure M.)

Bradley, F. W., B.Sc.

Haslam-Jones, U. S., B.A. (Ox.),  
B.Sc. (Lond.)

Jr. Lectrs. (Pure M.)

Grace, S. F., M.Sc.

Lectr. (Applied M.)

*Medicine, v. infra**Music*

[Also Prof. Lectr]

Buck, P. C., M.A., Mus. Doc.

*Naval Archt., v. Engin**Oceanography*

Johnstone, J., D.Sc. Lond. Prof  
Daniel, R. J., M.Sc. Lectr.

Jenkins, J. T., D.Sc. Lond, D.Sc.  
Wales, Ph.D. Kiel (Sea  
Fisheries) Hon. Lectr.

Scott, A., M.Sc., (Econ. Ichthyol.)  
Hon. Lectr.

Chadwick, H. C., M.Sc. (Marine  
Biol.) Hon. Lectr.

*Palæography and Diplomatics*

Twemlow, J. A., B.A. Ox.

Assoc. Prof

*Parasitology*

Yorke, W., M.D. W. Myers Prof.

Southwell, T., A.R.C. Sc  
Lectr. (Helminthology).

*Philology, Comparative, v. Ger-  
man**Philosophy*

Dorward, A. J., M.A. Prof

Reid, L. A., M.A. Edin., Ph.D.

Senr. Lectr

Turner, J. E., M.A., Ph.D.

Reader.

*Physics*

[L. Jones Prof.]

Wilberforce, L. R., M.A. Camb

Rice, J., M.A. Belf. (Spl. Lectr. in  
Educn.) Assoc. Prof.

*Lectrs and Demrs. :*

Ablett, R., M.Sc.

Band, W., M.Sc.

Edwards, E., B.Sc. Wales, M.A.  
Tor

Roberts, R. W., M.Sc.

Stewardson, E. A., M.Sc.

Oliver Lodge Fellow.

*Physiology*

Macdonald, J. S., M.A. Camb,  
F.R.S. Holt Prof.

Duffield, F. A., M.B., Ch.B. Edin.  
Lectr.

Waller, W. W., B.A., B.M. Ox

Chamberlain, E. N., M.D., M.Sc.

Wadsworth, T. W., M.D., D.P.H.,  
(Appl. Physiol.)

Walker, C. E., D.Sc., M.R.C.S.,  
L.R.C.P. (Histology) Lectr.

Tozer, Frances M., B.Sc. Lond.  
(Histology and Cytology)

Lectr.

*Protozoology*

Adams, A. R. D., M.B., Ch.B.,  
D.T.M. Lectr.

*Russian Studies*

Boswell, A. B., M.A.

Bowes Prof. of R. Hist.  
Lang and Lit.



Williams, H. W., Ph D. Mun (R.  
Ethnog) Research Fellow.  
Slepchenko, B. S. Recog. Teacher.

### *Social Science*

Carr-Saunders, A. M., M.A. Ox.  
Charles Booth Prof.  
Jones, D. Caradog, M.A. Camb.  
Sr. Lectr. in Social Statistics.  
Black, Ellinor I., B.Sc. Lond.  
Lectr. in Social Science.

### *Spanish*

Peers, E Allison, M A Camb. and  
Lond. Gilmour Prof.  
Zarco, A M , Lic -en-let  
Tempy. Lectr.

### *Vet. Science*

Share-Jones, J., D.V Sc , M Sc ,  
F R C V S , Dir of Vet Studies  
Prof of V. Anat  
Gaiger, S. H., F.R.C.V.S , Prof  
(Diseases of Animals).  
Davies, G O , B V Sc , M R C V S ,  
Lectr  
Annett, H. E , M.B E , M D ,  
D.P H. Lectr  
Elam, C W., D V.H , M.R C V S.  
Lectr  
Hughes, H V., B.V.Sc Lectr.  
Isherwood, R., M.R.C.V.S. Lectr.  
Mattinson, A. B., O B E.,  
F.R.C.V.S , D.V.S.M. Vict.  
Lectr.

Shuttleworth, A C , B V Sc  
Jr Lectr.

Warburton, F. S , M R C V S.  
Chn Lectr.

### *Welsh*

Davies, J. Glyn, M.A. Assoc. Prof.  
Owen, E., Barr.-at-Law, M.A.,  
F.S.A.

(Welsh Mediæval Antiq ) Reader

*Zoology*, v. also Entom , Ocean.,  
Parasit , Protoz.

Dakin, W. J , D.Sc. Derby Prof.  
Burfield, S. T., B.A. Camb., M.Sc.  
Sr. Lectr

Bisbee, Ruth C , M.Sc.  
Lectr. & Demr.

Fordham, Mahalah G. C., M.Sc.  
West. Aus. Lectr. & Demr.

## Engineering

### *Civil Engineering*

Perrott, S W., M.A.I. Dub. Prot  
Whitaker, H. A., B.Eng. Lectr.  
Hitchens, A. P., B Eng (also  
Lectr. in Design and Draw-  
ing) Lectr. & Demr.  
Webster, F., M C , M Eng  
Lectr. & Demr.

### *Dock and Harbour Engineering*

Wilton, T. R., M A Camb  
Assoc Prof.

### *Electrical Engineering*

Marchant, E. W , D Sc Lond.  
Jardine Prof.  
Teago, F J , D Sc Durh. (Elect  
Machinery) Rankin Prof.  
Prescott, J C , M.Eng. Lectr.  
Waygood, O C , M I E.E Lectr  
Brookes, R. C., B A. Camb.  
Lectr.

### *Industrial Economics*

The Prof of Commerce Lectr.

### *Law, Engineering*

[Lectr  
Gordon, C. G S , LL B , Barr -at-  
Law Lectr.

### *Marine Engineering*

Lectrs. : The Prof. of Mech. E ,  
the Prof of Nav. Arch

### *Mechanical Engineering and*

#### *Applied Mechanics*

Scholes, G E , M.B E , M Sc.  
Manc.

Harrison Prof. (Mech. E.).  
Mason, W , D.Sc. Manc. (Applied  
Mechanics) Hughes Prof.  
Mawson, H , D Sc. (Eng ) Lond ,  
A.R C S.

Sr Lectr (Mech Engin  
and Hydraul Mach )

Clark, J. J., M.Eng.  
Lectr. (Design & Drawing).

Okill, J., M Eng Lectr.  
Kearton, W. J., M.Eng. Lectr.  
Cole, E. B., B Sc. Bris Lectr.  
Smith, G., B Sc. Lectr.

*Metallurgy*

Bannister, C. O., M Eng., A.R.S.M.  
(also Lectr in Dental M)  
Wortley Prof.

*Municipal Engineering*

Brodie, J. A., M.Eng. Assoc. Prof.

*Municipal Electrical Engineering*

..... Hon. Lectr

*Naval Architecture*

Abell, T. B., O.B.E., M Eng,  
R.C.N.C. (ret)

A Elder Prof

Wilson, J. C. M., M Eng, R.N.C.  
Lectr. & Demr.

*Railway Engineering*

Aspinall, Sir J. A. F., D Eng  
Assoc. Prof.

**Medicine** (for subjects of first 2  
yrs —Anat, etc, v. *supra*)

*Bacteriology*

Beattie, J. M., M.A. N.Z., M.D.,  
C.M. Edin. Prof

Ashcroft, L. S., M.B., Ch.B.,  
D.P.H. Lectr

Redman, Thirza, M.Sc., Ph.D.,  
M.B., Ch.B.

Lectr. (Public Health Bact)

*Cytology*, v. also *Physiology*

Walker, C. E., D.Sc., M.R.C.S.,  
L.R.C.P. Assoc Prof

Tozer, Frances M., B.Sc. Lectr

*Dermatology*

MacKenna, R. W., M.A., M.D.  
Edin. Lectr

*Diseases of Children*

Fordyce, A. D., M.D. Edin Lectr

*Diseases, Infectious*

Rundle, C., O.B.E., M.D. Lond.,  
D.P.H. Lectr

*Diseases, Mental*

Reeve, E. F., M.B., B.S. Lond.  
Lectr

*Diseases, Specific*

Stopford-Taylor, R., D.S.O., M.B.  
Lectr

*Forensic Medicine and Toxicology*

[Prof  
MacFall, J. E. W., M.D., D.P.H.  
Jones, T. J., M.B., Ch.B. Demr

*Hygiene*

Hope, E. W., O.B.E., M.D., D.Sc.  
Edin Prof

Mussen, A. A., B.A., M.D. Dub.  
D.P.H. (Practical San) Lectr

Lectrs. in Pub. Health Admn. :

Hanna, W., M.A., M.D. Belf.,  
D.P.H. (Admn and Vaccn.)

Stallybrass, C. O., M.D., B.S.,  
D.P.H.

*Laryngology*

[Hon Lectr.  
Guthrie, T., M.A., M.D., F.R.C.S.

*Mat Med and Pharmacy*

Marsden, P. H., M.Sc., F.C.S.  
Lectr.

*Medicine*

Hay, John, D.L., M.D., F.R.C.P.  
Prof. & Clin. Lectr.

Matthews, J. C., M.A., M.D.,  
F.R.C.P. Lectr

Chamberlain, E. N., M.D.

Clinical Lectrs.

Bligh, J. Murray, M.D.

Capon, N. B., M.D.

Gullan, A. G., M.D. Lond.,  
F.R.C.S.

Johnson, W. (v. Anat)

Owen, J., T.D., M.D. Lond.,  
F.R.C.P., D.P.H.

Pemberton, H. S., M.B.

*Midwifery and Gynæc*

Bell, W. Blair, M.D., B.S. Lond.  
Prof and Clin Lectr.

Robinson, A. L., M.D., F.R.C.S.  
Lectr. & Clin Lectr

Herd, S. B., M.D. Senr Demr.

Datnow, M. M., M.B., Ch.B.  
Demr.

Clinical Lectrs

Ivens, Mary H. F., Ch.M., M.B.,  
M.S. Lond.

Murray, H. Leith, M.D. Aberd.

Willett, J. H., M.D.

*Neuro - Pathology of Mental Diseases*

Watson, G. A., M B, C M. Edin  
Hon. Lectr.

*Ophthalmology*

Chavasse, F. B., M.A., M.D.,  
D.O.M.S. Ox. Lectr.

*Pathology*

..... Holt Prof  
Evans, W. Howel, B.Sc., M.B.,  
Ch.B. Lectr.  
..... Demr.

*Pharmacology and Genl Therapeutics, v also Mat. Med.*

Dilling, W J, M B, Ch B Aberd.  
Assoc. Prof.

Cohen, H, M.D  
Lectr. (Practical Therap.).

*Public Health, v. Hyg. and Chem.**Radiology*

Holland, C Thurstan, D L, Ch M.  
[Lectr.

## Asst. Lectrs :

Mather, J. H, M B, Ch.B, B Sc,  
D M R E.

Roberts, R. E, M D., B Sc,  
D M R E

*Surgery*

Parker, R, M B, B S Lond.,  
F R C S Prof

Kelly, R E, C B, M D., B Sc,  
F R C S

## Prof and Clin Lectr

Jones, Sir Robert, Bart, C B,  
K B E, Ch M, D Sc, F R C S  
(Orthopaedics)

## Lectr. and Clin. Lectr.

Monsarrat, K. W., M B., C M.  
Edin (Operative S)

## Lectr and Clin Lectr.

Kennon, R., M.D., F.R.C.S.  
(Practical S.) Lectr.

## Other Clinical Lectrs. :

Armour, T. R. W., M B, C.M.  
Edin, F.R.C.S.

Evans, A. J., F.R.C.S. Edin.

Heaney, F Strong, M.A., M.D.  
Dub.

Simpson, G. C. E, B A., M B,  
B C. Camb., B Sc., F R C S.

McMurray, T. P., Ch.M. Belf.

Morrison, J T, M B, Ch B

Jeans, F A G., M A, M B, B.Ch  
Camb., F R C S.

Williams, O. Herbert, M.B Edin,  
F.R.C.S., D.P.H. Ox.

Wolfenden, H. F., M.D., F R.C.S.

*Tropical Med*

Sir A. Jones Prof

*Tropical Diseases of Africa*

Blacklock, D B, M D. Edin,  
D.P.H. Prof, and Dir. of  
Sierra Leone Research Lab

*Tropical Sanitation*

.....

*Vaccination, v. Hygiene***Dentistry***Dental Surgery*

Gilmour, W H, M.D S, L D.S.,  
LL.D. (Penn) (Dir. of D  
Educn) Cohen Prof

Barker, H. E., L D.S. Demr

Latto, H M, B D S Demr

Plumpton, S, L D S Demr

*Anæsthetics*

Smith, G. F. R., M.B., B.S. Lond.,  
M.D. Lectr.

Clothier, B, L D.S. Demr.

*D Anat., Histol, and Physiol.*

Woods, J. A, M D.S., L.D S.

Lectr

Guyler, T. W. C., B.D S. Demr.

*D. Mechanics*

[Lectr.

Osborn, L J., M D S., L D S.

Fairhurst, R, B D S., L.D.S.

Demr.

*D. Metallurgy, v. Met.**Operative D. Surgery*

Bennette, H. W. P., M.D.S.,  
L.D.S. Lectr.

Meeson, A. E., B.D.S. Demr.

*Clin. D. Surgery*  
7 Lectrs.

### University Extension

*Orthodontia* Secy to the Univ. Extension  
Mountford, E. H., L.D.S. Lectr. Board :  
Roberts, O. P., L D S. Demr. E. Hickinbotham, B.A.

## ASSOCIATED AND AFFILIATED INSTITUTIONS

INSTITUTE OF ARCHÆOLOGY, Abercromby Square, Liverpool. Associated Teachers additional to the staff of the Faculty—*Assyriology*, Pinches, T. G., LL.D.; *Numismatics*, Milne, J. G., M.A.; *Central American Arch*, Gann, T. W. F., M R C S, L R C.P.

TIDAL INSTITUTE. Established 1919. Administered by a Joint Committee representing the Mersey Docks and Harbour Board and the BIDSTON OBSERVATORY (administered by the same Committee). Director, Prof. J. Proudman, M.A., D Sc, F.R S

ST. AIDAN'S COLLEGE, Birkenhead Principal, Rev. R. T. Howard, M.A. Affid for first year of degree course and, in subjects in which instruction is not provided in the Univ., up to half of the entire course for the B.A.

Recognized Teachers in—*Hellenistic Greek*, . . . . .; *Eccl Hist*, Heiser, F. B., M.A.; *Hebrew*, Keith, K. E., M.A.

EDGE HILL TRAINING COLLEGE. Principal, Miss E. M. Smith Recognized Teachers in—*Maths*, Smith, Miss E. M.; *English Lit.*, Deakin, Miss M. H., M.A.

MOUNT PLEASANT TRAINING COLLEGE. Principal, Miss C. Holcroft, M.A. Recognized Teachers in—*Latin*, Sampson, Miss M, M A ; *English Lit*, Healey, Miss M. J, B.A.

TRAINING COLLEGE, Chester. Recognized Teachers. Thomas, R. A., O.B.E., M.A, Principal of the College (in *Maths.*); Hooper, F. W., B.Sc., A.I.C. (in *Chem. and Physics*); Sheppard, W. R., B.Sc. (in *Maths. and Physics*).

THE HARRIS INSTITUTE, Preston. First year of Degree Course (Engineering).

SCHOOL OF TROPICAL MEDICINE, Pembroke Place, Liverpool. New Laboratories opened 1920. Ward for Tropical Diseases at Royal Infirmary, Liverpool. Departments with research laboratories at Manaos and Sierra Leone. For training in the conduct of original research and organization of prophylactic measures. Has sent out numerous expeditions to tropical countries. Publishes *Memoirs* and *Annals*. For staff, v. *supra*—Trop. Med, Trop. San, Parasit, Entom, Hygiene. Diploma course, 3 months.

PATHOLOGICAL LABORATORY, County Mental Hospital, Rainhill.

## GENERAL INFORMATION

University College, Liverpool, founded by Royal Charter 1881, was admitted into the Victoria University, Manchester, in 1884. In 1903 the University of Liverpool was established by Royal Charter and the College was absorbed in it.

LIBRARY, MUSEUMS, ETC. The library of the Univ. contains about 107,000 vols., and includes among special collections great series, such as Migne, Pertz, Muratori, and Acta Sanctorum. Among rarer possessions are the Rylands collection of early works on Geography and Astronomy, a collection of works by and about William Blake, sets of the Roxburghe, Bannatyne, and Maitland Clubs, a unique number of Aldines, and over 100 incunabula, among them the

final sheets of the *Constitutiones* of Clement V. printed at Mainz in 1460. Special bibliographies have been issued. In addition there are twenty-three Class Libraries in the Faculty of Arts and External Departmental Libraries for the Medical and Science Departments.

The following are the principal MUSEUMS AND LABORATORIES: Anat., Archæol (including a unique Hittite collection), Archit., Bact., Bio-Chem., Bot., Chem., Physical and Electro-Chem., Electricity (Applied), Embryol. and Genetics, Engin. (including facilities for aerial motor and propeller testing and other wind experiments), Geol., Hygiene, Laryngology, Materia Medica, Expl. Med., Trop. Med. (including museum, animal houses, and specially warmed glass insectarium, and research labs. at Liverpool, Sierra Leone, and Manaoş), Obst. and Gynæc., Oceanog., Ophth., Path., Physics, Physiol. and Histol., Surg. Path., Tidal Research, Toxicology, Vet. Anat. and Path., Zool. The Port Erin (Isle of Man) Marine Biol. Lab has been transferred to the Univ. by an Act of Tynwald. HOSPLS. available for Clinics, 4 general and 5 special, containing 1445 beds, which together constitute the clinical school. The trade of the port ensures frequent importations of infection. Special wards for Trop. Diseases. Expeditions to Tropical countries organized for investigation or advice. Suitably qualified persons may enter the Laboratories for research work at prescribed fees.

FACULTIES. (1) Arts (with Schools of Archit., Social Sciences and Administration (including Economics, Commerce, Geography, and Social Science), Local History and Records, Russian Studies; Departments of Civic Design and Educn.); (2) Science; (3) Medicine (with Schools of Dent. Surg., Hygiene, Trop. Med., Vet. Sc.); (4) Law; (5) Engineering. *Deans* (1) Prof. A. Bruce Boswell (Russian), (2) Prof. Dakin (Zool.), (3) W. J. Dilling (Pharmacology), (4) Prof. Batt (Commercial Law), and (5) Prof. Scholes (Mech. Engin.). Director of Dental Educn., Prof. Gilmour, of Veterinary Studies, Prof. J. Share-Jones.

MATRICULATION. See Appendices XX. and XXII.

DEGREE COURSES: 3 yrs., B.A., B.Com., B.Sc., LL.B.; 3 or 4 yrs., B.Eng. (*plus* 2 yrs.' appr'ship); 5 yrs., B. Arch., M.B., Ch.B., B.D.S., B.V.Sc.

The B.Com. courses include (1) General Business; (2) Banking, Insurance, Accounting; (3) Transport, Railways, Shipping; (4) Consular Service.

The LL.B. courses prepare for the Bar and solicitors' exams. as well as for the Degree. The B.V.Sc. may be taken concurrently with the M.R.C.V.S.

HIGHER DEGREES: Ph.D., v. p. 18. (1) *Graduates of Liverpool in Faculty concerned*. Obtainable after Bachelorship: 1 yr., (after Hons. B.Sc.) M.Sc.; 15 mos., M.Ch. Orth.; 2 yrs., M.A., M.Com., (after ord. B.Sc.) M.Sc., M.D., Ch.M., M.H. (Hygiene), M.D.S., M.V.Sc., LL.M., M.Eng. After Mastership: 5 yrs., D. Litt., D.V.Sc., LL.D. After Mastership or Ph.D.: 5 yrs. after M.Sc., 4 yrs. after Ph.D. (Science), D.Sc., D.Eng.; 10 yrs., after B. Arch., on distinguished archit. work, M. Arch. (2) *Graduates of approved Univs*. After Bachelorship and 2 yrs.' higher study or research in Liv. Univ.: M.A. (1 yr. elsewhere), M.Com., M.Sc., M.H., M.V.Sc., LL.M., M.Eng. The M.A. and M.Com. are also open under certain conditions to B. Arch. and grads. in Liv. Univ. of a Faculty other than Arts. (3) *Non-Graduates*. After 3 yrs.' higher study or research in Liv. Univ.: M.A. (1 yr. elsewhere), M.Sc., LL.M., M.Eng.

The M.Ch.Orth. is open to grads., other than Med., of this or approved Univs. who are F.R.C.S. (Eng., Ed. or I.) or Fellows of the American Coll. of Surg.

DIPLOMAS. Archæol., 1 yr. course; Archit., 5 yrs.; Civic Design, 1 yr.; Commerce, 3 yrs.; Social Science, 1 or 2 yrs.; Educn. (for grads.), 1 yr.; Geography, 2 yrs.; L.D.S., 4 yrs.; D.P.H., 1 yr.; D.T.M., 3 mos.; D.T.H.,

3 mos. (after taking D.T.M.); D.M.R.E., 2 terms; D.V.H., 6 mos.; Engin., 2 yrs. after final examn. for Certif.

**CERTIFICATES.** Archæology, 2 yrs.' course; separate Arts subjects, 2 yrs., Architectural Design, 1 yr.; Civic Design, 2 terms of 2 sessions; Social Science, 1 or 2 yrs. (qualification for entry lower than for Diploma course); Educn., 1 yr.; Engin., 3 yrs.; Univ. extension courses, 3 yrs.

**FEES.** For Matricn., £2. Guild of Undergrads, £2 10s p.a. **DEGREE COURSES:** B.A., or B.Com. (3 yrs.), £90; M.A. or M.Com. (sessional), £5, B.Arch. (5 yrs.), £150; B.Sc. (3 yrs.), £105 to £160; M.Sc. (sessional), Maths., £5; other subjs., £10; M.B., Ch.B. (5 yrs.), £228; M.D. (sessional), £10; Ch.M. (2 yrs.), £20; M.H. (2 yrs.), £80; M.Ch.Orth. (15 mos.), £41; B.D.S. (5 yrs.' complete course in the University), £250; M.D.S. (2 yrs.), £27 or £32; B.V.Sc. (5 yrs.), £175; M.V.Sc., 1st yr., £30, 2nd yr., £20; LL.B. (3 yrs.), £50; LL.M. (sessional), £5, B.Eng. (3 or 4 yrs.), £144-£192, M.Eng. (Research), £20, Ph.D. (2 yrs.), £27. Apparatus fee per session, £10. **DIPLOMA COURSES:** Archit. (5 yrs.), £150; Civ. Des. day, £35, Educ. (1 yr.), £20, Com. (3 yrs.), £90; Soc. Science (2 yrs.), £28; Archæol. (1 yr.), £10; Geography (2 yrs.), 1st yr., £20, 2nd yr., £10, D.P.H. (1 yr.), £45; D.T.M. (3 mos.), £21, D.T.H. (3 mos.), £10 10s; D.M.R.E. (2 terms), £24 5s; L.D.S. Liv. (complete course in the University) (4 yrs.), £198; M.R.C.V.S. (4 yrs.), £120, D.V.H. (6 mos.), £21, Eng., £96. **CERTIFICATE COURSES.** Archit. Des. (1 yr.), £35; Civ. Des. (2 terms of two sessions), £10, Soc. Science (2 yrs.), £28, Archæol. (2 yrs.), £30; Educ. (1 yr.), £20, Engin. (3 yrs.), £96-£144

**EXAMN. FEES.** M.B. and Ch.B., B.V.Sc., B.D.S., £15; B.Arch., £5; other Bachelor degrees, £4; Master's degree (examn. or on application), M.H., 10 gs.; Ch.M., M.V.Sc., M.D.S., £5; others, £3; Doctor's (on application), £10. Diploma examns., L.D.S., £15; Comm., £4; Archæol., £3; Educn., Soc. Science, £2, Eng., £3, others, £5 or 5 gs. Certif. Examns., Eng., £6, others, £2. Degree Admission Fees, £6 for first degree, subsequent degrees, £5; Dipl. Eng., £3, Certif. Eng., £2, others, £1

**SCHOLARSHIPS, ETC., FOR GRADUATES.** Research Fellowships and Scholarships of the aggregate value of over £6000 are offered annually in all faculties; Garrett International Fellowship for Research in Bact., Path., or Physiol. open to members of Univs. and Med. Schools in the U.S.A. and of other foreign schools, £100 for 1 yr. with possible extension 2 yrs. (applications by May 31); Johnston Colonial Fellowship of same value, for research in Bio-Chem. with teaching, open to members of Colonial Univs. and Med. Schools, not excluding Colonial candidates with British qualifications (applications by May 31)

**RESIDENCE, ETC.** Two hostels for 110 men (fees, £70); one for about 90 women (fees from £65 to £72). Students' Union Club House cost £20,000.

**ASSOCIATION OF GRADUATES.** Besides the statutory assocn.—"Convocation"—there is an Old Students' Assocn., the functions of which are mainly social.

A UNIVERSITY EXTENSION Board is responsible for extra-mural work. There are travelling libraries for local centres.

**PUBLICATIONS.** *Calendar* (Oct.), 2s. 6d.; *Diary* (Oct.), free; *Prospectuses of Faculties and Schools* (July), free; *Students' Handbook* (Oct.), free; *Students' Magazine*, *The Sphinx*, 6d. (4 numbers per session); *Inaugural Lectures*. Issued in 1920, *inter alia*, School of Tropical Medicine Historical Record, 1898-1920, 10s. 6d.; *A Brief Record of Work and Progress*.

## THE YEAR 1927-28

**BENEFACTIONS.** Miss Holt, £2000 for Univ. Hall Building Fund and £1500 for a Travelling Schol'p. in Architecture; Miss Melly, £250 for Univ. Hall Building Fund; Mr W. Hewitt, £200 for equipment of new Geology Building; Lord Waring, £50 a year for five years for a Travelling Schol'p. in Decoration; Executors of the late Emeritus Prof Shelwall Thomas, £5000 for a Fellowship in Surgical Pathology, Trustees of the Woolton Mechanics Institute, endowment of a Schol'p.

**NEW POSTS** A Lectureship in Veterinary Pathology.

**LEGISLATION.** M.A. School of Jurisprudence established.

**RESIGNATIONS AND RETIREMENTS.** Dr J Sampson, Librarian, retired, Prof W J Dakin, on appt as Prof in Zoology, Univ Sydney, Prof E. E. Glynn, resigned, Prof. W R Halliday, on appt as Principal, King's College, London, Prof. J. W. W Stephens, resigned, M M Gilhes, on appt. as Lect. in Greek, Hull, H King, on appt as Lectr in Geography, Hull; S Welsh, on appt as Headmaster, School of Architecture, Sheffield, J Williams, on appt as Lectr. in Construction, Manchester, W S. Angus, on appt. to administrative post, Univ London, Dr. A. Hassan, on appt to Research Dept, Govt Egypt

**UNIVERSITY EXTENSION** Lectures at 39 centres Three-year Tutorial Classes, 55 1195 students on Roll Series of popular afternoon and evening public lectures at the University Several special public lectures by eminent men Christmas Holiday lectures for boys and girls.

**HONORARY DEGREES** *LL D*—William Macbride Childs, Vice-Chancellor of Reading, The Right Hon'ble H. A L Fisher, Prof. J W Gregory, Miss Emma G. Holt; Sir Edwin L Lutyens, The Right Hon'ble Sir Archibald T. J Salvidge *Litt D*—The Right Hon'ble the Earl of Crawford and Balcarres, Emer Prof O Elton; Prof T P Nunn *D.Sc*—Prof. J. E Littlewood; Prof R. Robinson *D.Eng*—Emer Prof J A Fleming

**STUDENTS.** Full-time total, 1551, including 147 graduates. Part-time total, 495, including 311 graduates

**DEGREES** M.A., 20; B A, 118; B Arch, 6; B Com., 2; D Sc, 3, Ph D. (Sc.), 17; M Sc, 13; B Sc, 72, M D, 11, Ch M, 3; M.Ch.Orth, 1, M.B, Ch B, 48, B.D S., 3; B V Sc, 1; LL M, 3, LL B., 11; Ph D. (Eng.), 1; M Eng, 13, B.Eng, 31.

# UNIVERSITY OF LONDON

VISITOR—H M THE KING IN COUNCIL.

CHANCELLOR—Rt. Hon. the EARL OF ROSEBERY AND MIDLOTHIAN,  
K G., K.T, D C.L., etc.

VICE-CHANCELLOR—SIR GREGORY FOSTER, B A., Ph D.

CHAIRMAN OF CONVOCATION—S. L. LONEY, M A.

PRINCIPAL OFFICER—THOMAS FRANKLIN SIBLY, D Sc.

ACADEMIC REGISTRAR—EDWIN DELLER, LL D

REGISTRAR OF THE COUNCIL FOR EXTERNAL STUDENTS—G. F GOOD-  
CHILD, M.A., B.Sc.

REGISTRAR OF THE UNIVERSITY EXTENSION BOARD—JOHN LEA, M.A

FINANCIAL OFFICER and SECRETARY TO THE SENATE—H. CLAUGHTON,  
C.B.E., B.A.

SUPERINTENDENT OF EXAMINATIONS—F. J PORT, LL D.

GOLDSMITHS' LIBRARIAN—R. A. RYE

DEANS OF FACULTIES. See under "General Information"—Faculties.

REPRESENTATIVE IN PARLIAMENT—E. G GRAHAM LITTLE, M.D., B A.

## *Incorporated Institutions and University Departments*

UNIVERSITY COLLEGE, v. p. 117.	SCHOOL OF ARCHITECTURE, v p 123
KING'S COLLEGE, v. p. 125.	
GOLDSMITHS' COLLEGE, v. p. 167.	INSTITUTE OF HISTORICAL RE-
BROWN ANIMAL SANATORY INSTITN.,	SEARCH, v. p. 106.
v. p 106.	
FRANCIS GALTON LABORATORY FOR	COMMERCE DEGREE BUREAU AND
NATIONAL EUGENICS, v. p. 122.	APPOINTMENTS BOARD, v. p. 112.

## *Associated Institutions (v. next page)*

36 SCHOOLS OF THE UNIVERSITY.	23 OTHER INSTITUTIONS HAVING RECOGNIZED TEACHERS
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## PROFESSORS, READERS, LECTURERS, ETC.

*Note.*—University teaching is organized under 3 categories: (1) conducted by the Univ. itself; (2) conducted by the several "Schools of the Univ."; (3) conducted at the other Institutions at which there



are "Recognized Teachers of the Univ." For explanation of these terms, see second para. of General Information on p. 105. The names of teachers of the several subjects will be found in the subsections indicated by symbols as follows:

UNIVERSITY COLLEGE, p. 117 (U). KING'S COLLEGE, p. 125 (K).

### *Schools of the University*

IMPERIAL COLLEGE, p. 132 (Im.). BEDFORD COLL. FOR WOMEN, p. 149 (BW).  
 EAST LONDON COLLEGE, p. 137 (EL).  
 BIRKBECK COLLEGE, p. 139 (Bk.). ROYAL HOLLOWAY COLL., p. 152 (Ho).  
 LONDON SCH. OF ECONOMICS, p. 141 (E). WESTFIELD COLL., p. 153 (Wf.).  
 S.E. AGRIC. COLL., WYE, p. 145 (Ag.). 4 THEOLOGICAL SCHOOLS, p. 154 (Th).  
 LONDON DAY TRAINING COLL., p. 146 (Tr). 21 MEDICAL SCHOOLS, p. 156 (Med.).  
 SCHOOL OF ORIENTAL STUDIES, p. 147 (O). Laws Faculty, p. 172 (Law).  
 KING'S COLL. OF HOUSEHOLD AND SOCIAL SCIENCE, p. 129 (KH). 23 Other Institutions having recognized Teachers, p. 173 (RI).

<i>Accountancy and Business Methods</i> (E)	<i>Chemistry, Organic</i> (U, K, Im., BW, RI).
<i>Administration</i> , v. Public	<i>Chemistry, Pathological</i> (U, Med.).
<i>Aeronautics</i> (Im, EL).	<i>Chemistry, Physical</i> (K, Im., BW).
<i>African Languages</i> (O).	<i>Chemistry, Physiological</i> (Med.).
<i>Agriculture</i> (Ag, RI).	<i>Chinese</i> (O).
<i>Albanian</i> (O).	<i>Classics</i> (U, K, EL, Bk., BW, Ho, Wf., Th., RI).
<i>Anatomy</i> (U, K, Med.).	<i>Commerce and Industry</i> (E, RI).
<i>Anatomy, Morbid</i> (Med.).	<i>Coptic</i> (U).
<i>Anthropology</i> , v. also Social A. (U, K).	<i>Czechoslovak</i> (K).
<i>Arabic</i> (O).	<i>Danish</i> (U).
<i>Aramaic</i> (Th.).	<i>Dental Science</i> (Med.).
<i>Archæology</i> (U, K).	<i>Dutch</i> (U, BW).
<i>Architecture</i> (U).	<i>Economics</i> (U, E, Bk., KH).
<i>Art (Fine Art)</i> (U, K, Ho.).	<i>Economic Geography</i> (U, E).
<i>Astronomy</i> (U, Im.).	<i>Economic History</i> (K, E).
<i>Astrophysics</i> (Im.).	<i>Education</i> (K, Tr., RI).
<i>Aviation</i> (Im., EL).	<i>Egyptology</i> (U).
<i>Bacteriology</i> (KH, Med.).	<i>Embryology</i> (U).
<i>Banking and Currency</i> (E).	<i>Engineering—</i>
<i>Bibliography</i> (K).	<i>Aviation</i> (Im., EL).
<i>Bio-Chemistry</i> (U, Im, Med.).	<i>Chemical Engineering</i> (U, Im.).
<i>Biology</i> (Im., KH, Med.).	<i>Civil Engineering</i>
<i>Botany</i> (U, K, Im., EL, Bk., Ag., BW, Ho., Wf., Med, RI).	(U, K, Im., EL, RI).
<i>Celtic</i> (U).	<i>Electrical Engineering</i>
<i>Chemical Engineering</i> (U, Im.).	(U, K, Im., EL, RI).
<i>Chemical Technology</i> (Im.).	<i>Engineering Design</i> (U, Im.).
<i>Chemistry</i> (U, K, Im., EL, Bk., Ag., KH, BW, Ho, Med., RI).	<i>Heating and Ventilating</i> (U).

- Engineering—Contd.**
- Mechanical Engineering* (U, K, Im., EL, RI).  
*Mining and Power Engineering* (Im.).  
*Municipal Engineering* (U).  
*Optical Engineering* (Im.).  
*Railway Engineering* (U).  
*Surveying* (U, RI).  
*Waterways, Harbours, and Docks* (U).
- English* (U, K, EL, Bk., E, BW, Ho., Wf.).
- Entomology* (Im., Ag., Med.).  
*Ethnology* (E).  
*Eugenics* (U).  
*Finance, Public* (E).  
*Forestry* (Im.).  
*French* (U, K, EL, Bk., E, BW, Ho., Wf.).  
*Fruit Culture* (Ag.).  
*Fuel Technology* (Im.).  
*Geography* (U, K, EL, E, Bk., BW).  
*Geology* (U, K, Im, EL, Bk., Ag., BW, RI).  
*German* (U, K, EL, Bk., E, BW, Ho.).  
*Greek, Modern, and Byzantine History* (K).  
*Hebrew* (U, K, Th, RI).  
*Historical Research and Sources of English H* (v also p 122) (K).  
*History* (U, K, EL, Bk, E, O, BW, Ho, Wf., RI).  
*History and Culture of British Dominions in Asia, with Special Reference to India* (O).  
*History and Records of London* (U).  
*History, Imperial* (K).  
*History and Instns, Modern French* (U, E).  
*History, Central European* (K).  
*History of Medicine* (U).  
*History and Method of Science* (U).  
*History, Near East* (O).  
*Horticulture* (Ag.).  
*Household Science* (KH).  
*Hygiene* (U, KH, Med.).  
*Indian Economics* (E).  
*Industrial Psychology* (E).  
*International History* (E).  
*International Relations* (E).  
*Italian* (U, K).  
*Journalism* (U, K).  
*Languages, v. African, Arabic, etc.*  
*Law* (Law, Bk., E, O, RI).
- Librarianship* (U).  
*Logic, v. Philos.*  
*Malayalam* (O).  
*Mathematics* (U, K, Im., EL, Bk., BW, Ho., Wf., RI).  
*Medicine and Surgery* (Med.).  
*Metallurgy* (Im., RI).  
*Meteorology* (Im.).  
*Military Science* (U, K).  
*Mineralogy* (U, Im.).  
*Mining* (Im.).  
*Music* (Ho., RI).  
*Mycology* (Ag.).  
*Norwegian* (U).  
*Oil Technology* (Im.).  
*Optics, Technical* (Im.).  
*Oriental Langs, v. also Semitic, Tibetan* (O).  
*Palæography and Econ. Hist.* (K).  
*Palæontology* (Im.).  
*Pedagogy* (K, Tr., RI).  
*Pharmacology* (U, K, Med.).  
*Philology, Comparative* (U, K).  
*Philosophy, Psychology, and Logic* (U, K, Bk, E, BW, Ho., Th.).  
*Philosophy of Religion* (O).  
*Phonetics* (U and O).  
*Physics* (U, K, Im., EL, Bk., KH, BW, Ho, Med., RI).  
*Physics, Astronomical* (U, Im.).  
*Physiology* (U, K, KH, BW, Med., RI).  
*Polish* (K).  
*Political Economy, v. Economics*  
*Political Science* (E).  
*Political Theory* (E).  
*Portuguese* (K).  
*Poultry* (Ag.).  
*Protozoology* (Med.).  
*Psychology, v. Philosophy*  
*Public Administration* (E).  
*Public Health* (U, Med.).  
*Refractory Materials and Silicates* (Im.).  
*Romance Philology* (K).  
*Roumanian* (K).  
*Russian* (K).  
*Russian Institutions and Economics* (E).  
*Scandinavian* (U).  
*Secretarial Practice* (E).  
*Semitic Languages* (U, RI).  
*Serbian* (K).  
*Shipping* (E).  
*Sinhalese* (O).

<i>Slavonic Languages</i>	(K).	<i>Tibetan</i>	(U, O).
<i>Social Anthropology</i>	(E).	<i>Town-planning, v. Architecture</i>	
<i>Social Science</i>	(E, KH, BW).	<i>Transport</i>	(E).
<i>Sociology</i>	(E).	<i>Veterinary Science</i> (v. also p. 176)	
<i>Spanish</i>	(K, EL).		(Ag., RI).
<i>Statistics</i>	(U, E).	<i>Woods and Fibres, Technology of</i>	
<i>Surveying</i>	(U, RI).		(Im.).
<i>Swedish</i>	(U).	<i>Zoology</i>	(U, K, Im., EL, Bk., BW,
<i>Theology</i>	(K, Th.).		Med., RI).
<i>Thermodynamics</i>	(U).		

## GENERAL INFORMATION

[NOTE. *The University authorities desire that it should be clearly understood that they can accept no responsibility for any information concerning examns. or procedure except such as is contained in their own official Regns. These can always be obtained on application at the Univ. offices.*]

Central offices—South Kensington, S W 7. Telegraphic address—University, Southkens, London. Telephone—Kensington 7000

The Univ. was constituted by Royal Charter in 1836 as a body empowered to grant degrees to students of approved institutions after examination, and, until 1900, its work was confined to the examination of students. The system whereby entrance to its examns. was restricted to students of certain affiliated Colleges was abolished, except for examns. in Medicine, in 1858. In 1878 its degrees were thrown open to women, London being the first of the Univs of Great Britain to adopt this policy.

In 1900 the Univ. was reconstituted so as to strengthen the ties between it and the institutions engaged in Higher Education within a radius of 30 miles. The Senate is empowered to admit as *Schools of the University* institutions situated within the administrative county of London and not carried on for the private gain or profit of the owners which provide education of Univ. standard, and is required to obtain reports at prescribed intervals on the efficiency of such schools. A special form of recognition may be given to an institution within the same area founded for research or the cultivation of any special branch of science or learning, and the Lister Institute of Preventive Medicine, the Maudsley Hospital, the Bethlem Royal Hospital, the School of Pharmacy, and the School of Oriental Studies have been admitted in this category.

The Senate has the power also to recognize as Teachers of the Univ. any members of the teaching staff of public educational institutions within a radius of 30 miles, whether Schools of the Univ. or not. Matriculated students of Schools of the Univ. or studying under such *Recognized Teachers* are eligible under certain conditions for registration as *Internal Students*, and are allowed, after pursuing Approved Courses of Study, to enter for the "Internal" examns. of the Univ. *External Students* may pursue their studies where and how they please, and are admitted, without any conditions as to attendance at Approved Courses, to examns. for degrees in all subjects except Medicine, Mining, and Architecture. The examns. for Internal and External students are in some cases separate, in others identical, but the statutes require that "the degrees conferred on both classes of students shall represent as far as possible the same standard of knowledge and attainments."

Since the reconstitution of the Univ., its two original colleges, University Coll. in 1905 and King's Coll. in 1908, have been incorporated in it, the Senate,

which is the supreme Univ. body, taking over the responsibility for their administration.

**LIBRARIES** The Libraries belonging to and connected with the Univ. contain in the aggregate about half a million volumes, distributed over every branch of knowledge. The Univ. Library in the Central Building, S. Kensington, contains about 200,000 volumes and pamphlets. It provides well-equipped special collections to promote research work, and also serves as a lending library from which students can borrow expensive works for home study. It includes the Goldsmiths' Library of Economic Literature (60,000 vols.), which is restricted to purposes of research and reference. The British Library of Political Science at the London School of Economics has 700,000 items. There are, in addition, large departmental libraries in the several Colleges and various collections of books on special subjects, too numerous for mention. Access can also be obtained to the library of the British Museum (3 million printed books), the Public Record Office (40 million items), the Royal Colonial Institute Library (164,000 vols. and pamphlets relating to the Empire overseas, including India), and other collections described in *The Libraries of London* (v. *infra*—Publications).

**MUSEUMS.** Among the many Museums which, in addition to those belonging to the Schools and Institns. of the Univ., are accessible to students in London are the British Museum (Antiq and Nat Hist.); Horniman (Anthrop. and Zool.); London; Parkes (Sanitary Science); Practical Geol.; Roy. Archit. Soc's; Roy. Coll. of Surgeons'; Science, S. Kensington (Mech., Nav., and Struct. Engin., Phys., Maths, Chem., Physiog., Geol., and Biol.); Sir John Soane's (Art and Antiquarian); Victoria and Albert, S. Kensington (Archit. and Sculpture, etc.)

**LABORATORIES.** The most important are mentioned in the subsections relating to the several colleges. The following are not attached to any college:

*The Brown Animal Sanatory Institution*, 149 Wandsworth Rd., Vauxhall, S.W.8. Superintendent—F. W. Twort, M.R.C.S., L.R.C.P. Established in 1871 for "investigating, studying, and, without charge beyond immediate expenses, endeavouring to cure maladies, distempers, and injuries, any quadrupeds or birds useful to man may be found subject to." It contains a Hospital, in which the diseases and injuries of animals are treated, and a Laboratory, where the investigation and study of diseases of animals are carried on. Both In- and Out-Patients (some 5 or 6 thousand per annum) are treated. Clin. students may be admitted to the Vet. Depts., and Research students are received in the Lab.

*The Institute of Historical Research*, Malet St., W.C.1, is the University Laboratory of History, devoted exclusively to post-graduate and research work. It is situated close to the British Museum, and consists of a systematically planned series of seminar libraries, provided with the books containing or describing the main sources of mediæval and modern history (especially those whose manuscript originals are in the Record Office and other London Archives). It is open not only to every professor, reader, or other teacher of history in the Univ. and his research students, but to historians, archivists, and teachers and research students from other Univs, approved by the Committee. *Director*, A. F. Pollard, M.A., Litt D., F.B.A., Prof. of Const. Hist.; *Secretary and Librarian*, C. G. Parsloe, B.A.

**FACULTIES.** 1. Theology. 2. Arts. 3. Laws. 4. Music. 5. Medicine. 6. Science. 7. Engineering. 8. Economics and Political Science. Deans: 1. Dr. Garvie (Hackney and New Coll.). 2. Prof. Atkins (King's Coll.). 3. Prof. Jenks (Lond. Sch. Economics). 4. Dr. C. H. Kitson (R. Coll. of Music). 5. Prof. G. E. Gask (St. Bart.'s Hospl.). 6. Prof. Filon (University Coll.).

7. Mr. C. L. Fortescue (Imp. Coll., C.G.C.). 8. Prof. Gregory (Lond. Sch. of Economics).

*Standing Committees of the Senate.* The more important are—The Academic Council, the Council for External Students, the Board to Promote the Extension of Univ. Teaching, the Matricn. Board, the Establ. and Genl. Purposes, Finance, Library, and Scholarships Committees. There are 26 other Committees besides the 45 Boards of Studies.

TERMS for Univ. and Inter-collegiate courses, 1928-29: Oct. 4-Dec. 14, Jan. 10-March 20, April 25-June 27.

DEGREES. B.D., D.D.; B.A., M.A., D.Lit.; LL.B., LL.M., LL.D.; B.Mus., D.Mus.; M.B., B.S., M.D., M.S.; B.D.S.; B.Pharm.; B.Sc., M.Sc., D.Sc.; B.Com., M.Com.; Ph.D. (in Faculties of Theol., Arts, Music, Science, Engin., and Econ.).

The B.Sc. and D.Sc. are granted in the Faculties of Science (including Pure Sc., Agric., Hortic., Vet. Sc., and, for External students, Estate Management, and, for Internal students, Household and Social Science—B.Sc. only), Engineering, and Economics; the M.Sc. in Science (including Agric., Hortic., Vet. Sc., and, for Internal students, Household and Social Science, and, for External students, Estate Management), Engineering and Economics.

ADMISSION. The Univ. holds 3 times a year in London and twice a year in certain Provincial centres a Matricn. examn. open to all persons of 16 yrs of age and upwards. The examn. can also be held by special arrangement in any of the British Colonies or Dominions. Candidates are required to pass on one and the same occasion in 5 subjects: English, Mathis, Latin or Greek or a scientific subject, 2 other subjects of which one must, if neither Latin nor Greek is chosen for 3rd subject, be a language, but any candidate may offer an alternative lower paper in Mathematics or French or Latin and, in compensation, a sixth subject, such a candidate will be required to pass on the one and the same occasion in each of the six subjects selected. The General School examn. (v. p. 114), if passed in a combination required for Matricn., is equivalent to the Matricn. examn., and several other examns. are also accepted on conditions as exempting from it, namely, those numbered 2, 6, 7, 8(a), 8(b), 9, 10, 12, 19, in Appendix XX, and including the School-leaving examns. of the Univs. of Adelaide, Melb., W. Aust., Cape of Good Hope Secondary School Senior Cert., and Transvaal Secondary School Examn.

STUDENTS FROM OTHER UNIVERSITIES. The graduates of any of the Univs. of the United Kingdom and of some overseas Univs.\* can also claim exemption. Other students of 19 yrs. of age and upwards who present certificates of Matricn. in Colonial Univs. or Indian or foreign certifs. from educational authorities indicating an education equivalent in their own country to that required in England for the Matricn. examn., may apply for *examination under Statute 116* (in lieu of taking the Matricn. examn.) with special reference to the line of study they propose to follow. It has been the practice to hold this examn. four times a year. Students who do not propose to proceed to a degree are not required to pass any Univ. examn., but must submit evidence that they are sufficiently advanced in their studies.

\* In Canada—Acadia, Alb., Br. Columbia, Dal., King's, Laval, McG., McM. (B.A. only), Manit., Montreal, Queen's, Saskatchewan, Tor., Vict., W. Ontario, Australasia—Adel., Melb., Qld., Syd., Tas., W. A. (Arts, Sc., Agr., Eng.), N.Z.; S. Africa—Cape, Cape Town, S. Afr., Stell., Witw.; India—Agra, Aligarh, All., Benares, Bom. (I. M. and S. also recognized), Calc., Dacca, Delhi, Lucknow, Mad., Mys., Nagpur, Panj., Patna, Rang.; Hong-Kong; certain Univs. in countries outside the British Empire.

PERSONS OVER 25 YEARS OF AGE who in virtue of professional qualifications or otherwise are specially qualified to proceed to a Degree course, may apply for examn. under Statute 116. See the preceding paragraph.

EXTERNAL students preparing for the Bachelorship undergo Intermediate and Final examns. at intervals prescribed in the Regns., and approximating (except in Med., Dental Surgery, and Vet. Sc) to 3 yrs in all. Copies of all Regns. may be obtained gratis and post free from the External Registrar.

EXAMINATIONS IN THE OVERSEAS DOMINIONS. Certain of the examns. of the Univ. for External students are held not only in London and at Provincial centres within Great Britain, but also in certain of the overseas Dominions of the Empire. In India only the examns in the Faculty of Theol. are held for civilians; but other examns may be held for military personnel. The Matricn examn and the examns in Theol., in Arts, in Laws, and in Economics have been held at 110 overseas centres. The Univ Examns in Science have also been held under special arrangements at 8 overseas centres, including Ceylon, the Government of which colony now awards annually scholarships of a total value of over £4000 per annum upon the results of the Univ. Final examns. in Arts and in Science

An INTERNAL student before being allowed to enter as such for any examn. must, unless specially exempted, have attended Instruction courses in all the subjects thereof. For a first degree in any Faculty he must have completed an Approved Course of Study extending over at least 3 yrs. which must, ordinarily, have been continuously pursued, but not necessarily all at one institution. A minimum number of hours of attendance is as a rule prescribed for each course, and a reduction is allowed in the case of an evening student who is certified by an employer to be engaged in his service for not less than 25 hours a week. The Intern. course generally extends over 1 yr. As a general rule, Honours may be taken at the Final examns. A course of study extending over not more than 1 yr. taken in another Univ. approved for the purpose subsequently to a student's passing the Intern. may be accepted subject to regns. in lieu of a course taken in this Univ.

Any person who has passed the Intern. examn as an *External* student may be allowed to take the Final examn for the first degree after having attended for 2 years as an Internal student an approved course of study for it, but the degree will not be conferred until a further year's course of approved study has been pursued

ARTS. In both Intern. and Final (Pass) examns 2 langs. must be taken, including either Latin with Rom. Hist., or Greek with Greek Hist. Natives of Asia or Africa may apply for permission to substitute for Latin or Greek—Classical Arabic, Classical Persian, Sanskrit, Pali, Classical Hebrew, or Classical Chinese. The Honours subjects for the Final examn are Archæol., Chinese, Classics, Hebrew and Aramaic (including Syriac), Hist., Geog., Maths., Philos., Psych., Engl., French, Ger., Ital., Portuguese, Span., Slavonic Studies, Indo-Aryan, Arabic, Persian, Japanese, also Celtic for External students, and, for Internal students, Greek, Latin, Dutch, Scandinavian Langs., Anthropology, Sociology

The B.A. course in Archit. extends over 5 yrs., but graduates of approved Univs. may be exempted from such part of the earlier years' courses of study and examns. as the Senate may determine.

The M.A. is conferred in Archæol., Class., Hist., Maths., Mediæval and Mod. Langs., Oriental Langs., Philos., Educn., Geog., and, for Internal students only, in Comp. Philol., Psychol., Slavonic Studies, and Sociology. Internal students are required (except in Maths.) to submit a thesis. In some cases candidates must have taken Honours at the B.A. examn. External students

may take the M.A. examn. 2 yrs. after graduation in Arts. Candidates may only take 1 branch or section at a time. In most there is a *viva-voce* examn.

The D.Lit. is open to M A's and Ph D.'s only (except as regards students excused under Statutes 113 and 129—v. p. 111), and is conferred for original work; minimum age—30, or 5 yrs. after passing Ph.D. or M A examn.

**Diplomas.** Teacher's, 1 yr. course for graduates and others similarly qualified (also for External students); Fine Art (3 yrs), Dramatic Art (2 yrs); Slavonic studies (2 yrs.), History (4 yrs. part-time or 1 yr full-time); History of Art (4 yrs. part-time or 2 yrs. more intensive); Anthropology (2 yrs); Journalism (2 yrs); Literature (4 yrs part-time or 1 yr. full-time); Town Planning and Civic Archit or Civic Engin (2 evenings a week for 2 terms or 1 day a week for 3 terms), Academic Dip. in Geog. (180 hours); External Dip. in Geog, Sociol, etc. (v *infra*, Econ); Librarianship (2 yrs for day students, 3-5 yrs for evening students); Academic Diplomas in Psychology, Theology, Anthropology, and Archæology (2 yrs); External Dip in Theology.

**SCIENCE** For the Interim. examn Pure or Applied Maths or Physics must be taken with 3 other subjects. For Final (General) examn. any 3 of the following may be selected Pure Maths, App Maths., Astron, Physics, Chem., Geol., Bot., Zool, Physiol., Psych., Anthropol., Milit. Studies, Geog, Human Anat and Morph, and Logic and Method (Ext students), Statistics (Int. students). For B.Sc. (Special) examn a student selects 1 principal and (except in case of Human Anatomy and Morphology or Maths) 1 subsidiary subject. Honours may be awarded at both B Sc (General) and B Sc. (Special) examn. Internal students may take the B.Sc. "by Research" (v. p. 111). For the M.Sc. for Internal students a thesis is required except in Maths

For the Degree in Agric the Interim examn includes Chemistry, Botany, Zoology, and Physics; the Final—Agric, Bio-Chem, Agric. Bot., and Agric. Engin. In Horticulture the subjects for the Interim are Chem., Bot, Zool, Physics, Geol., and Surveying, for the Final, Practice of Hortic, Book-keeping, Principles of Hortic, and Entom. For the Degree in Vet Sc. there are 4 examns. to be taken in their proper order Prelim. (Inorganic Chem. and Physics), Interim Pt. I. (Organic Chem, General Biol., and Vet. Anat.), Pt. II. (Vet. Physiol), and Final (Vet. Pathol and Vet Hyg) There is no Doctorate in Agric or in Vet. Sc., Bachelors of Science (Agric. or Vet. Sc.) being held to be eligible for the ordinary D Sc. For the Degree in Household and Social Science there are 3 examns. 1st Interim. (Phys, Inorg. Chem., Biol, and Social and Econ Hist), 2nd (Chem—Org and Phys, Gen and Econ. Biol., Principles of Econ), and Final (App. Chem., Physiol. and Bio-Chem., Hygiene and Bacteriol, and Household Work). For the Degree in Estate Management there are 2 examns., Interim. and Final. Interim.: Pt. I—Surveying, Econ., and Agric or Town Planning, Pt. II.—Accounting and Land Law; (Pts. I. and II. may be taken separately). Final Pt. I.—Land and Buildings Valuation, Taxation and Tithe, Land Law; Pt. II—Building Construction, and *either* A (Agric., Forestry, Agric. Law) *or* B (Town Planning, Urban Pub. Sanitation, Munic. and Local Govt. Law). Pts. I. and II. may be taken separately.

**Diplomas.** Academic Dip. in Bacteriology (1 yr.), Academic Dip. in Biology (1 yr).

**THEOLOGY.** The Interim. course is in Bibl. Langs, Greek, Lat, and Psych. and Ethics; the Final in Old Test., New Test., Bibl. and Hist. Theol., Church Hist., Philos. Introdn. to Theol., and a selected subject. The Honours examn. is distinct from the Pass, and may be taken 1 yr. after graduation in Div.; the subjects are Hebrew and Aramaic, including Syriac, Greek N.T. and

Apocrypha, Church Hist., Bibl. and Hist. Theol., Study of Religion. Candidates for the D.D. degree must have taken Honours in Theol. in this Univ.

**LAW.** The subjects of the Interm. course are Rom. Law, Engl. Const. Law and its Hist., Jurispr., and Crim. Law and Crim. Procedure, *or* Indian Penal Code and Crim. Procedure. Candidates for the LL.M. degree are examined in two selected subjects. Candidates for the LL.D. degree must have obtained the LL.M. degree unless specially exempted.

**MEDICINE.** The course extends normally over  $5\frac{1}{2}$  yrs. In the first yr. courses in Inorg. Chem., Phys., and Genl. Biol. in preparation for the 1st examn. for Med. degrees are taken. The 2nd and 3rd yrs. are devoted to Org. Chem. (the only subject at Pt. I. of the 2nd examn.), Hum. Anat. and Embryol., Physiol., Pharmacol. Pt. II. of the 2nd examn. is normally taken 18 mos. after passing the 1st. In the Final course for the M.B., B.S. degrees the subjects are divided into 2 groups as follows: Group I.—Med., Path., For. Med. and Hyg., Group II.—Surg., and Obstetrics and Gynæcology. The groups may be taken separately or together, but degrees are not conferred until candidates have passed in both groups.

Institutions outside the U.K., certificates from which for the complete course of Med. educn., including Clin. Med. and Surg. preparatory to the M.B., B.S. degrees, are accepted by the Univ. of London: Univs. of Dalhousie, McGill, Adel. (with Infirmary), Melb. (with Melb. and Alfred Hospls.), Syd. (with Infirmary and Prince Alfred Hospl.), N.Z. (with Dunedin Hospl.); following Indian Med. Colleges—Grant (Bombay), Bengal (Calcutta), Lahore, Madras, Med. Coll., Colombo; Univ. of Malta; Sch. of Med., Cairo.

The M.D. may be taken in any of the following: Med., Path., Psych. Med., Midw. and Dis. of Women, State Med., Trop. Med.

The M.S. may be taken in Surg., Dent. Surg., Ophth., or Larynx, Ot., and Rhin.

For the M.D. or M.S. a thesis or published work may be submitted

The course for the B.D.S. extends normally over 5 years—there are four examns. The subjects of the Final examn. are Dental Surgery, Operative D.S. and Orthodontics

**B.Pharm.** The Intermediate subjects are Botany, Chemistry, Physics, and Zoology, and the Final subjects are Botany, Chemistry, Pharmacognosy, and Pharmacy.

*Diplomas* Psychological Medicine, Nursing

**MUSIC.** The subjects for the Interm. examn. are Harmony and Counterpoint, Form and Analysis, and Hist. of Mus. For the B.Mus. the subjects of examn. are Harmony and Composition, Counterpoint, Fugue and Canon, Hist. of Music, Musical Analysis, Musical Exercise. Every candidate for the B.Mus. must submit a musical exercise. For the D.Mus. there is a written examn., and a musical exercise is also required

**ENGINEERING.** Interm. examn. subjects. Pure Maths. and Applied Maths., Heat, Elec. and Magn., Engin. Drawing, and either Sound and Optics or Chem. or Geol. In the Final examn. in *Engin.* not less than 5 subjects are taken, a wide choice being allowed, in *Mining* 6, of which Mining Geol. and Mineral, Mining, Mine Surveying, Mineral Dressing, and Assaying are compulsory; in *Metall.* 6, of which Metall., Metall. Analysis, Metallography and Pyrometry, Electro-Metall., and Fuel and Refractory Materials, are compulsory. For an Honours degree in Engin., Mining, or Metall. at least 1 extra subject must be taken at the Final examn. and a higher standard reached in all the subjects taken.

**ECONOMICS.** The Interm. examn. for B.Sc. (Econ.) is in 2 parts, which may



be taken together or on different occasions. Pt. I.—Elements of Econ., Geog., Mathematics or Logic or French or German. Pt. II.—English Econ. Hist., British Constitution. For the Final—Econ., Hist. of the Great Powers, Political Sc., and a selected subject. Passages are set from French and German works for translation and comment.

For the B.Com. the Interim. examn. is in 2 parts, which may be taken together or on different occasions. Pt. I.—Elements of Econ., Geog., an approved Modern Lang. Pt. II.—English Econ. Hist., accounting as applied to Traders and Trading Companies, or a subsidiary Approved Mod. Foreign Lang. The B.Com. examn. is in 2 parts: I.—the Present Organization of Industry, Banking, Trade, and Transport; Econ. Development of the Empire; Elements of Comm. Law, Statistical Method; II.—A selected group of subjects.

*Diplomas.* Academic Dip. in Sociology and Social Administration (2 yrs.' course, at least 150 hours in each); Dip. in Economics and Social Sc. (4 yrs.' part-time or shorter full-time course).

**MILITARY EDUCATION.** See Appendix I. Military Studies is one of the optional subjects for the Interim. and Final B.A. (Pass) and B.Sc. (General) examns. The Officers' Training Corps Contingent supplied 4200 officers for the war, of whom 650 are known to have fallen.

**POST-GRADUATE STUDY AND RESEARCH** In most of the Colleges and Schools of the Univ. special arrangements are made for Research students, and the facilities offered are not restricted to Internal graduates of the Univ. Under Statutes 113, 113*a*, and 129 External graduates and graduates of, and persons who have passed the degree examns. of, other approved Univs. are allowed, under certain conditions, to enter as Internal students for the degree of Bachelor or Doctor in the several Faculties (but not in Medicine and Surgery), and for the degree of Master of Arts, of Laws, or of Science. Application for registration may be submitted with evidence of graduation, etc., through the authorities of the College, School, or Institution at which the applicant proposes to study, and supported by their certificate of his fitness to undertake a course of study or research with a view to the proposed degree, and that they are willing to supervise his work. An Overseas student may himself submit an application on the prescribed form, and the Univ. will, if so requested, advise as to the selection of the College, School, or Institution at which, and Teacher under whom, he should study. Application for such advice should be addressed to the Academic Registrar. Overseas students should apply for registration before coming to London, and their applications should reach the Univ. by May 1, or, if from Australia or New Zealand, March 1, to enable them, should their applications be successful, to enter upon their course of study in Oct., *i.e.* at the beginning of the session. Students whose applications are approved are required to pursue a course extending over at least 2 yrs (*v. infra*—Publications)

An Internal student who is a candidate for the Ph.D. degree must have graduated in the Univ. in the faculty of Theology, Arts, Music, Science, Engineering, or Economics, or have been registered as a candidate for the degree under Statute 113 or 129. An Internal student is further required to pursue a course of study of not less than two years' full-time, or four years' part-time, training in research and research methods. Any graduate of the Univ. may become a candidate for the Ph.D. degree as an External student on receiving the approval of the Council for External Students.

The B.Sc. degree, in the Faculties of Science and Econ., may also be taken "by Research" by Internal students under Statute 112. Candidates must

have attained the age of 19 and must have passed the Intern. examn. The research must extend over at least 2 yrs.

**FEES.** Matricn.—2½ gs.; Examn. and Graduation—15 gs. (Med., 29 gs.) for first Degree. Other Degree fees, 10 to 20 gs Tuition, see the sections relating to the several colleges.

**STUDENTSHIPS AND SCHOLARSHIPS.** Studentships are awarded by the Senate in aid of advanced work or research. These include one of £50 p.a. for 1 or 2 yrs., open to students of Univ. Coll. in Maths; one of £100 in Archaeology; one of £50 in Physiology; £100 and £140 in Arts; £100 in Econ; £200 for the man or woman who, being resident in London and a graduate of the Univ., has done most in the preceding 5 yrs. to advance Medical Art or Science, £200 for a graduate of a British Univ. for the promotion of post-graduate research, 2 Univ. *Travelling Scholarships* of £275 each, open to Internal and External graduates in all faculties, and 3 Univ. Studentships of £150 each, open to Int. and Ext. graduates in Theol., Arts, Laws, Music, and Engineering, *Duveen Travelling Studentship* of £450 for research in Oto-Rhino-Laryngology. The Gilchrist Trustees provide funds for two Studentships, viz. one of £100 for a woman graduate preparing for a profession; and one in Mod. Langs., £80, open to a B.A. who took Honours in French or German, for a course of study abroad with a view to the profession of teaching. Three Scholarships of £50 each for 1 yr. are awarded annually for proficiency in Oriental Langs. The Scholarships Pamphlet, obtainable post free on application to the Univ., gives details of many others. See also next para.

THE COMMERCE DEGREE BUREAU exists to help in their studies External (especially extra-London) students proposing to take the Commerce Degree examns., to assist in the employment of Commerce Degree students and graduates at home and abroad, to provide a reference and lending library for students, and generally to promote the value and usefulness of the Commerce degree. Offices were opened in 1922 under a Board of Governors at 46 Russell Square, W.C.1, where the work of the Bureau is associated with the general UNIVERSITY APPOINTMENTS BOARD work. There is a Bureau Educational Advisory Staff (Chief Advisor: Prof. A. J. Sargent, M.A.). Prospectus and enquiry forms obtainable on application to the Secretary, H. J. Crawford, B.A.

The *Sir Ernest Cassel Travelling Scholarships* (4) of £200 to £300 each, open to British students who pass Part I. of Final Examn. in Commerce, and propose to pursue study of Commerce abroad.

**RESIDENCE.** Hostels recognized by the Senate: Connaught Hall of Residence, 13-14 Bedford Place, W.C.1; Univ. Coll. Hall, Ealing, for 52 men students (fees for residence, 30s. to £3 a week); College Hall, Byng Place, Gordon Square, W.C., for women students; King's Coll. Theological Hostel, Vincent Square; The Platanes, Denmark Hill, S.E., for King's Coll. and its Med. School. Residence is also provided at or in connexion with the S.E. Agric. Coll., Wye, Bart's, Guy's and Middlesex Hospl. Med. Schools, the Theological Colleges at Hampstead and Highbury, and the Women's Colleges.

A UNION SOCIETY on the lines of those of Oxford and Cambridge was founded in March 1921. Address—University Union, Malet St., W.C.1. There is also an ASSOCN. OF LONDON GRADUATES. A UNIVERSITY COUNTRY CLUB at Chequers was formed (by a private company) in 1924.

**UNIVERSITY EXTENSION DEPARTMENT.** The work of the *Board to Promote the Extension of Univ. Teaching* falls under the following heads: (a) Univ. Extension Lectures and Tutorial Classes for Working-people; (b) Holiday Courses for Foreigners; (c) Inspection and Examn. of Schools; (d) Examn.

for the Certif. in Religious Knowledge; (e) Examn. for Certificate of Proficiency in English and examns. for the Certifs. in Danish, French, German, Italian, Norwegian, Russian, Spanish, and Swedish; (f) Examns. for Diplomas in History, Literature, Economics and Social Science, History of Art, Literary, Historical and Comparative Study of the Bible, (g) Examn. for Diploma in Psychological Medicine; (h) Examn. for Diploma in Dramatic Art; (i) Examn. for Diploma in Nursing.

(a) *Univ. Extension Lectures* have been carried on by the Board since 1902 (prior to that, since 1876, by the London Society for the Extension of Univ. Teaching). The work is restricted to the area within 30 miles of the Central Offices of the University. Courses are held, at about 60 centres, on Hist., Lit., Econ. and Social Sc., Philos., Geography, Music, Painting, Architecture, and Nat. Sc. A class is held in connexion with each lecture, and students are encouraged to do regular written work for the lectr. An examn. for certifs. may be held at the end of each Sessional (24 or 25 lectures) or Terminal (10 or 12 lectures) course. A few short courses (5 or 6 lectures) of a *pioneer* or illustrative kind are arranged, in connexion with these there is no examn. Continuous study over several years is encouraged by the Vice-Chancellor's Certif. of Continuous Study (awarded to students who obtain 4 Sessional Certifs. in subjects chosen from certain groups) and by the *Diplomas in the Humanities* (Hist., Lit., Econ. and Social Science, Hist. of Art, Literary, Historical and Comparative Study of the Bible), awarded, under the Seal of the Univ., to students who carry on an approved co-ordinated course of study covering 4 yrs., and pass the required examns. *Diplomas in History, Literature, and Economics and Social Science* are also awarded on the result of One Year Full-time study, *Diplomas in Economics and Social Science, and History of Art* on the result of two years' part-time study.

The *Tutorial Classes for Working-people* are under the immediate direction of a Joint Committee of 7 members nominated by the Board and 7 nominated by the Workers' Educational Association. The classes extend over 3 consecutive years, and membership is usually limited to about 24 students, who undertake to attend regularly and to do regular written work for the tutor. Certifs. are not awarded.

(b) A *Holiday Course for Foreigners* is held annually in London during four weeks from the middle of July. Special stress is laid upon Phonetic teaching. The course is designed to widen the student's knowledge not only of the Engl. Lang., but of English customs, instittns., and art, by means of lectures, classes, excursions, etc. The total number of students admitted to the course is limited to about 300, and the number in each class to 8. During the 21 years 1904-1914 and 1919-1928 the course was attended by 5058 students from 45 countries.

(c) *Inspection and Examination of Schools.* A close relationship between examination and inspection has been carefully and continuously developed by the Univ. Extension Board. The County Councils of Surrey and Middlesex have placed their Secondary Schools to the number of 66 under the Univ. for regular inspection and for the holding of the School examns., the local authority in each case making a special financial arrangement with the Univ. The Board of Educn. and the Univ. inspect alternately and exchange Reports.

*Inspection* may include either a general inspection of the whole school or a special inspection of certain subjects or groups of subjects. It may be so combined with the Certificate examns. that these form an integral part of it. It may also include an examn. carried on by the Inspectors and the Staff of the school in co-operation. This system of combined inspection and examn. is

known as Examinational Inspection, and is capable of considerable variation to meet the requirements of any particular school.

The *Examinations for School Certificates* are held only in Schools inspected by the Univ. or under other approved inspection; the course of study in the school must also be approved. The examns. are of 3 grades: I. Higher, II. General, and III. Junior; for I. the (a) Higher School, (b) Intermediate (Arts or Science or Commerce or Economics) Certificate; II. the (a) School, (b) Matricn., or (c) School Commercial Certif.; and III. the Junior School Certif., respectively. Certifs. I. (a), II. (a), and II. (c) are not awarded until the pupil leaves school. The examn. fees are from 1 to 3 gs., or 6 gs. if for Intermediate Cert.

The *Higher and General School Examinations* are recognized by the Board of Education as "Second" and "First" examns (v. p. 4) respectively, and the Certifs. I (a) and II (a) awarded to candidates attending schools recognized by it as efficient Secondary Schools are attested by it. The combination of subjects that may be taken at the General School examn. offers greater variety than is the case in the Matricn. examn., and a pupil who reaches the necessary standard at one and the same examn. in a combination required for Matricn. is entitled on payment of the registration fee of 17s. 6d. to be registered as a Matriculated student of the Univ., if or when he has attained the prescribed age.

The *Junior School Examination* is intended for pupils about the age of 15.

In the case of each of the School examns. an Inspector visits the school for the purpose of conducting an oral examn. in such Mod. Langs. as are taken. Practical examns. in Science are optional, except in the case of grade I., in which they form an essential part of the examn.

(d) The *Examination for the Certificate in Religious Knowledge*, instituted in 1909, is held once a year in June. It may be held at certain of the Provincial centres at which the June Matricn. examn. is appointed to be held, as well as in London.

(e) *Examinations for the Certificates in French and in German* (instituted in 1913), in *Italian, Russian, and Spanish* (instituted in 1919), and in *Danish, Norwegian, and Swedish* (instituted in 1921), are held in July or as may be arranged; in *English* ((1) for foreigners, (2) for English born; instituted in 1920) in Aug. or as may be arranged. They are intended primarily for teachers who are not specialists in, but who require a Certif. testifying to their practical working knowledge of, the language, both spoken and written.

(f) The *Examinations for the Diplomas in History; Literature—English Lang. and Lit. or General Lit.; Economics and Social Science, History of Art; and the Literary, Historical and Comparative Study of the Bible*—are held once a year for students who have followed a recognized course of study for 4 yrs. as part-time students, or in some cases for a shorter period.

(g) The *Examn. for the Diploma in Psychological Medicine* is held twice a year, in March and Apr. and in Oct. and Nov., and is open to candidates whose names are in the Medical Register. There are two varieties of this Dip., for those desiring to specialize in Mental Diseases and in Mental Deficiency respectively.

(h) The *Examn. for the Diploma in Dramatic Art* is held once a year, in July, and is open to students of not less than 17 years whose general education satisfies the Board and who have studied at least two years at Training Schools or Institutions where courses have been approved.

(i) The *Examn. for the Diploma in Nursing* is held once a year in October

and November, and is open to Registered Nurses (or Nurses eligible to sit for the prescribed examn. for registration) whose general education satisfies the Board, subject to certain specified conditions with regard to Part B of the Examn.

[Further information and copies of the Regns. may be obtained from the University Extension Registrar, University of London, South Kensington, S.W. 7.]

**PUBLICATIONS.** The following are obtainable from the Univ. of Lond. Press, Ltd., 10-11 Warwick Lane, London, E.C.4 :

*The Calendar*, pubd. in Sept., price 6s. net, postage 9d. · *Regns and Courses for Internal Students* (the "Red Book"), pubd. in Sept., 2s. 6d., postage 9d. The Courses are pubd. separately for the several Faculties. The *Regulations for External Students* (the "Blue Book"), pubd. in Sept., 1s. 6d. net, postage 6d. ; *London Univ. Gazette*, pubd. at average intervals of 4 weeks ; the Examn Lists are pubd. in Supplts. ; annual subs., including postage, 5s. ; single no., 7d. *Matriculation Pamphlet*, issued after each Examn., containing the Regns. and Examn Papers, 1s. 8d. post free. *Examn Papers*, published as soon as possible after the several Examns ; prices vary from 1s. 1d. to 3s. 10d *Libraries of London* : a Guide to Students, by R. A. Rye, Goldsmiths' Librarian, 3rd edition, 10s. *Historical Record of the Univ*, Second Issue, 1836-1926, contains (a) a Hist. of the Univ. ; (b) former Fellows, (c) Donations and Trusts ; (d) Graduates ; (e) persons to whom prizes, etc., have been awarded ; 5s. net., postage 6d.

*Regulations.* The following may be obtained on application to the Univ. · Regns. for Matricn. ; Regns. for Int. and for Ext. Students (pubd. separately) for Degrees in Arts, Science, Agric., etc. ; for the various Diplomas and Certificates in special subjects ; for Ph.D. Degree, Scholarships pamphlet. Applications for any of these should be addressed to the Principal.

*O.T.C. Handbook* obtainable from the Secy, 46 Russell Sq., W.C.1.

## THE YEAR 1927-28

**BENEFACTIONS** H.R.H. the Duke of Connaught, Hostel at 13-14 Bedford Place. Paviers' Company, £1500 a year for five years for Maybury Chair of Highway Engineering, tenable at City and Guilds College.

**NEW POSTS** At University College · Lord Northcliffe Chair of Modern English Literature and Chair of Economic Geography. At Imperial College, City and Guilds College · Maybury Chair of Highway Engineering At Bedford College Readership in Chemistry. At East London College Readership in Chemistry. At London School of Economics · Readership in English Law. At Middlesex Hosp. Med. Sch. Readership in Morbid Anatomy and Histology. At University Coll. Hosp. Med. Sch. : Readership in Bacteriology. At London School of Hygiene and Tropical Medicine. Chairs of Bio-chemistry and of Chemistry as applied to Hygiene.

**OTHER DEVELOPMENTS.** External Diploma in Public Administration was instituted Regulations in Music were revised Geoffrey E. Duveen Travelling Studentship instituted. Scheme for Examination of Training Colleges.

King's College of Household and Social Science was admitted as a School of the University.

Commissioners appointed under the Univ. of London Act 1926 drew up new Statutes for the University in accordance with the report of the Departmental Committee on the reorganization of the University.

**STUDENTS.** Total admissions in the year 1927 were 9894, of whom 2574 were exempted from the ordinary matriculation examination : 426 as graduates

of other Universities, 1898 as holders of approved certificates, and 250 after examination under Statute 116. Of 4094 candidates for first degrees, 2284 were internal and 1810 external. The total number of internal students on the rolls was 9662.

UNIVERSITY EXTENSION. Number of Lecture Courses: Sessional (24 or 25 Lectures), 45; Terminal (10 or 12 Lectures), 38; Short (3, 5, or 6 Lectures), 33. Terminal entries of Students for all Courses, 12,097. Humanities Diploma Students, 487. Number of University Tutorial Classes, 55; Students, 1104.

The Holiday Course for Foreigners was more popular than ever—over 550 applications for admission had to be refused. There were 274 students, representing 25 nationalities.

VISITORS who lectured in the Univ. — Dr. M. Mauss of Paris (Anthropology), E. Champion of Paris (French); Prof. H. Koht of Oslo (Norwegian), Prof. M. W. Calkins of Wellesley Coll., Mass. (Psychology); Mr. N. V. Arseniev of Königsberg (Slavonic Studies); Prof. F. Oppenheimer of Frankfurt (Sociology); Dr. G. E. Coghill of Wistar Inst., Philadelphia (Anatomy); Prof. M. Bodenstein of Berlin (Chemistry); Dr. E. M. Kindle of Canadian Geological Survey (Geology); Prof. P. Debye of Leipzig (Physics); Prof. S. D. Wicksell of Lund (Statistics); Dr. J. A. Bierens de Haan of Amsterdam (Zoology); Dr. E. Halévy of Paris (Economics), Prof. L. v. Mises of Vienna (Economics); Prof. W. Sombart of Berlin (Economics); Prof. J. M. Carré of Lyons (Comparative Literature); Dr. S. K. Wei of Nanking (Chinese); Prof. A. Nagel of Tech. Hochschule, Dresden (Civil and Mechanical Engineering); Prof. E. Cassirer of Hamburg (Philosophy); Dr. K. M. G. Siegbahn of Upsala (Physics), Dr. E. A. Hauser of Frankfurt (Chemistry).

# UNIVERSITY OF LONDON, UNIVERSITY COLLEGE

CHAIRMAN OF THE COLLEGE COMMITTEE—THE VISCOUNT CHELMSFORD,  
GCSI, GCMG, GCIE, GBE

VICE-CHAIRMAN—SIR JOHN ROSE BRADFORD, KCMG, CB, CBE,  
MD, DSc., FRCP, FRS

TREASURERS—F. V. SCHUSTER, BA, A. DIGBY BESANT, B.A., F.I.A.

PROVOST—SIR GREGORY FOSTER, BA, Ph.D.

DEANS OF FACULTIES. See under "General Information"—Faculties.

SECRETARY—C. O. G DOUIE

TUTOR TO WOMEN STUDENTS—EDITH GOODYEAR, BSc.

LIBRARIAN—J A WILKS, MA

## PROFESSORS, LECTURERS, ETC.

*Anatomy*  
Smith, G. Elliot, M.A. Camb.,  
Litt D, MD, MS Syd,  
D.Sc., FRCP, FRS Prof

Hill, J. P., D.Sc. Edn., FRS  
Prof. (*Embryol.*).

Harris, H. A, M.B., B.S., B.Sc.,  
Asst Prof. and Curator of  
Museum

Young, M., MD Lectr

Stubbe, E P, FRCS Sr Demr

Davies, F, MD Sr Demr

Fielding, Una, MB, ChM

Demr and Lectr

3 Hon. Lectrs (2 *Radiology*, 1  
*Cytology*) and 3 Hon Re-  
search Assts.

3 Demrs, 2 Hon Demrs, and 1  
Senr Asst

*Anthropology, Cultural* [Reader.  
Perry, W J., MA Camb.

*Archæology*, v also Egyp  
Gardner, E. A, Litt.D. Camb.  
Yates Prof.

Wheeler, R E M, MA, D Lit  
Hon Lectr

*Architecture* [Prof.  
Richardson, A. E., F.R.I.B.A.

Adshead, S. D, M.A. Liv.,  
M Arch, F.R.I.B.A

Prof (*Town Planning*).

Stratton, Arthur, F.R.I.B.A.,  
F.S.A Reader and Tutor.

Corfiato, H Sr Lectr

Jaggard, W. R, F.R.I.B.A.  
Lectr. (Building Constrn.).

Wilson, H Warren  
Lectr (Decoration)

Mortimer, R E  
Lectr (Brit Arch)

1 Sr Asst, 2 Assts

*Art (Fine Arts)*

Tonks, H. Slade Prof.  
Borenus, Tancred, D Lit, Ph D

Helsing  
Durning Lawrence Prof.  
(History of Art).

Steer, P. Wilson Asst. Prof.

Porter, A. T., M.A Camb. Lectr.

Child, C. Koe Sr. Asst.

8 Assts and 1 Demr.

*Astronomy*, v. Maths.

*Bio-Chemistry*, v. Physiol.

*Botany*

Oliver, F. W., M.A. Camb., D.Sc.,

F.R.S. Quain Prof.

- Hill, T. G., D.Sc., A.R.C.S.  
Reader (Plant Physiol.).
- Haas, P., Ph.D. Freib., D.Sc.  
Reader (Plant Chem.).
- Salisbury, E. J., D.Sc.  
Reader (Plant Ecol.).
- Cutting, E. M., M A Camb. Sr Asst.  
1 Demr.
- Celtic*
- Flower, R. E., B.A. Ox. Lectr.
- Chemistry*
- Donnan, F. G., C.B.E., M.A.,  
Ph.D. Leip., D.Sc. Liv., F.I.C.,  
F.R.S  
Prof (General C) and  
Director of Labora-  
tories
- Robinson, R., D.Sc., F.R.S  
Prof (Organic C)
- Colhe, J. Norman, Ph.D. Wurzburg,  
LL.D. Glas., D.Sc. Liv. and  
Belf., F.R.S Hon Lectr
- Brady, O. L., B.A. Cape, D.Sc.,  
F.I.C. Reader (Org C)
- Evans, H. J., B.Sc.  
Sr. Lectr. (Med. Students).
- Terrey, H., B.Sc.  
Sr Lectr (Inorganic Analyt)
- Barratt, S., B.A. Sr Lectr.
- Lectrs
- Gilbert, L. F., B.Sc.
- Bailey, C. R., B.A., M.Sc.
- Day, J. N. E., M.Sc., A.R.C.S.
- Sowerby, A. L. M., B.A., M.Sc.
- Bonnicksen, C. W., B.Sc.
- Topley, B., M.A.
- Le Fèvre, R. J., M.Sc.
- Walker, O. J., Ph.D.
- 3 Hon. Lectrs.
- Chemical Engineering*
- Gibbs, W. E., D.Sc
- Ramsay Prof.
- Mullen, J. P., M.Eng Lectr
- Classics*
- Smiley, M. T., M.A. Dub.  
Prof. (Greek).
- Butler, H. E., M.A. Ox.  
Prof. (Latin).
- Solomon, L., M.A. Ox. Sr. Lectr.  
3 Assts.
- Danish*, v. Scand.
- Dutch History*
- Geyl, P., Lit.D. Leyd. Prof.
- Dutch Lang. and Lit.* [Reader.
- Haantjes, J., Lit.Doctr. Utrecht
- Economics*, v. Polit.
- Economic Geography*, v. Geog.
- Egyptology and Coptic*
- Petrie, Sir Flinders, D.C.L. Ox.,  
LL.D. Aberd., F.B.A., F.R.S.  
Edwards Prof.
- Murray, Margaret A. Asst. Prof.
- Embryology*, v. Anatomy
- Engineering, Electrical*
- Clinton, W. C., B.Sc. Pender Prof.
- Barlow, H. E. M., B.Sc., Ph.D.  
Lectr in Electro-Com-  
munications
- Bayliss, C. W., B.A.  
Lectr in Electrical Ma-  
chine Design
- 1 Asst.
- Engineering, Civil and Mechan-  
ical*, v. also next heading
- Coker, E. G., M.A. Camb., D.Sc.  
Edin., F.R.S. (Dean) Prof.
- The Prof. of Munic Eng.  
Reader (Surveying).
- Lloyd-Evans, B. J., M.Sc.  
Asst Prof.
- Davidge, H. T., B.Sc. Sr. Lectr.
- Webb, A. E., B.Sc. Sr. Lectr.
- Collins, H. J., M.Sc., A.M.I.C.E.  
Sr Lectr
- Cookson, A. C., M.Inst.C.E.  
Lectr. (Railway E.).
- Cunningham, Brysson, D.Sc. Belf.,  
B.E. N.U.I.  
Lectr. (Waterways, Har-  
bours, and Docks).
- Sprague, E., A.M. Inst C.E. Lectr.
- Capper, P. L., M.Sc. Lectr.
- 1 Sr. Asst.



*Engineering, Municipal*

Ormsby, M. T. M., A.R.C.S. Dub.,  
M Inst.C E I. (Reader in *Surveying* also) Chadwick Prof  
Hart, C A , B Sc Sr Asst

*English* [Quain Prof.]

Chambers, R. W , M A., D Lit.  
Sisson, C. J., M A. Edin., D. ès L.  
Dijon Lord Northcliffe Prof  
Grattan, J H G , B A Reader  
Foster, Sir Gregory, B A., Ph.D.  
Stras Spl Lectr  
Blackman, Elsie, M.A. Sr. Lectr.  
Doughty, O., M.A , B Litt Ox.  
Sr Lectr  
Baker, E. A., M A., D Lit. Lectr.  
Batho, Edith C , M A Lectr  
Hitchcock, Elsie V., B.A , Ph.D  
Lectr  
1 Asst.

*Eugenics and Applied Statistics*

Pearson, Karl, M A. Camb., LL D  
Aberd and St. And , F R S.  
Galton Prof  
Elderton, Ethel M.  
Asst. Prof., Galton Research Fellow  
Stocks, P., M.A., M.D., B.Ch.  
Camb , D.P H.  
Reader in Med Statistics.  
Pearson, E S., M A , D Sc  
Sr Lectr  
Bell, Julia, M A , M R C P ,  
M R C S.  
Hon. Galton Research Fellow.  
Morant, G M , D Sc Lectr  
1 Asst , 2 Research Assts , 1 Hon  
Research Asst

*French*, v. also Hist.

Brandin, L. M., M.A , Ph D.  
Greifs. Fielden Prof.  
Jeaffreson, J. W., M A. Sr. Lectr.  
Stéphan, E. M. Sr Lectr  
Schlumberger, Beatrice J , M.A.  
Sr. Asst.  
Starke, Dora, M.A. Sr. Asst  
2 Assts.

*Geography*

Fawcett, C. B , D.Sc., B.Litt  
Prof (Economic G ).  
The Prof. of Munic. Engineering  
Reader (Surveying).  
Shackleton, Margaret R., B.A.

Lectr  
Hart, C A , B Sc Sr Asst  
2 Assts

*Geography, Physical, Geology and Mineralogy*

Garwood, E. J., M A , Sc D., F.R.S.  
Yates-Goldsmid Prof.  
Elsden, J. V , D Sc. Lectr.  
Chubb, L J , M Sc Lectr  
Goodyear, Edith, B Sc Sr. Asst.  
Earle, K W , M Sc Sr Asst

*German*

Priebsch, R , Ph D Graz Prof.  
Robertson, J G , M A , Litt D ,  
B Sc Glas , Ph D Leip Prof  
Perrett, W , B A , Ph.D. Jena  
Reader.  
Norman, F , M A Lectr.  
1 Asst.

*Hebrew*, v. also Semitic

..... Goldsmid Prof.

*History*, v. also Art and Medicine

Neale, J E , M A  
Astor Prof. (English H ).  
Pollard, A. F., M A. Ox., Litt.D.  
Manc Prof. (Const. H.).  
Davis, Eliza Jeffries, M.A.  
Reader (London H ).  
Aston, Maj -Gen. Sir George,  
K C B Spl Lectr (Naval H )  
Thornley, Isobel D., M.A. Lectr.  
Williams, C H , M A. Lectr.  
Brogan, D W , M A Lectr.  
Vaucher, Paul, D ès L. Paris  
Prof. (Mod. French H.).  
Cary, M., M.A., D.Litt. Ox.  
Reader (Ancient H.).  
Baynes, Norman H., M.A. Ox.  
Reader (Roman Empire)  
and Director of Even-  
ing School of H.

3 Assts.

*History and Method of Science*

Wolf, A., M.A. Camb., D.Lit.

Prof. (Logic and Scientific Method).

3 Assts.

*Hygiene and Public Health*

Delafield, M.E., B.A., M.B., D.P.H.

Lectr. and Acting Head of Department

Legge, Sir Thomas M., C.B.E., M.D., D.P.H. Lectr.

Marchant, F. T., M.R.S.A. Sr. Asst.

*Italian*

Gardner, E. G., M.A., Litt.D. Camb. Prof.

Pellizzi, C., Dr. J.

Sr. Lectr. and Barlow Lectr.

Cippico, Senator A., Dr. J. Graz

Hon. Lectr. (Modern I. Lit.)

Bassani, A. M., Dr. J. Sr. Asst.

*Journalism* [Tutor.

Solomon, Lawrence, M.A. Ox.

*Librarianship*

Baker, E. A., M.A., D.Lit.

Director and Lectr.

Wilks, J. A., M.A. Asst. Dir.

Lectrs.

Esdaile, Arundell, M.A. (Bibliography)

Prideaux, W. R. B., B.A. (Cataloguing and Indexing)

Sayers, W. C. Berwick (Classification).

Fovargue, H. West (Pub. Lib. Law).

Headicar, B. M. (Lib. Organization).

Sanderson, C. R., B.Sc. (Lib. Routine)

Galbraith, V. H., M.A. (Palæog. and Archives)

Chambers, Prof. R. W. (Literary History).

1 Asst.

*Mathematics (Applied) and Mechanics*

Filon, L. N. G., B.A. Camb., M.A., D.Sc., F.R.S.

Prof. and Dir. of Observatory.

The Senior Lectr. (Davidge, H. T.) in Civil and Mech. Engin.

Jessop, H. T., M.Sc. Sr. Lectr.

Harris, H. J., B.A. Sr. Lectr.

Gregory, C. C. L., M.A. Camb., F.R.A.S.

Sen. Lectr. (*Astronomy*)

Stevenson, A. C., B.Sc. Lectr.

1 Asst., 1 Research Asst., and 1 Hon. Asst.

*Mathematics (Pure)* [Astor Prof.

Jeffery, G. B., M.A., D.Sc., F.R.S.

Wren, T. L., M.A. Camb.

Reader (Geom.)

Titchmarsh, E. C., M.A. Ox.

Reader (Math. Analysis).

Harris, H. J., B.A. Sr. Lectr.

Howland, R. C. J., M.A., M.Sc.

Sr. Lectr. to *Engineering* students.

Wood, Florence M., M.A. Lectr.

3 Assts.

*Medicine, History of*

Singer, C., M.D., D.Litt. Ox.,

F.R.C.P. Lectr.

2 Hon. Research Assts.

*Norwegian, v. Scand.**Pharmacology* [Prof.

Verney, E. B., M.A., M.B., B.Ch.

Ing, H. R., M.A., D.Phil. Lectr.

1 Asst. and 2 Demrs.

*Philology*

Thomas, F. W., C.I.E., M.A., Ph.D.

Lectr. (Comparative P.).

*Philosophy*

Macmurray, J., M.A.

Grote Prof. (Philos. of Mind and Logic)

Keeling, S. V., M.A., D.Phil. Lectr.

*Phonetics*

Jones, Daniel, M.A. Camb. Prof.

Perrett, W., B.A., Ph.D.

Reader (German)

Armstrong, Lilias E., B.A. Sr. Lectr.

Ward, Ida C., B.Lit. Durh.

Sr. Lectr.

Firth, J. R., M.A. Sr. Lectr.



## GENERAL INFORMATION

Address—Gower St., W C 1. Telegrams—University College, London.  
Telephone—8101 Museum.

Founded in 1826 and opened Oct 1, 1828, under the name of "The University of London," the College was incorporated as "University College, London," by Royal Charter in 1836. On Jan. 1, 1907, it was incorporated in the University of London.

**LIBRARIES** (containing, in all, 286,000 bound volumes and pamphlets): (1) General, including Barlow (Dante), Blackburne (Law), Carnegie (American History and Institns), Field (Fine Art), Graves (Maths.), Leighton (Philos.), Morris, Quam (Law), Ricardo (Polit. Econ.), Strong (Oriental), and Whitley Stokes (Celtic) collections, and the Bentham MSS.; (2) Science, including Fownes (Chem.), Graham (Chem.), and Grant (Zool.) collections, and an exceptionally complete collection of scientific journals, (3) Medical Sciences, including Sharpey (Anat. and Physiol.) collection; (4) Special Arts Libraries for: Archit., Classical Archæol. (Yates), Classics and Anc. Hist., Egyptol. (Edwards), English, French, German, Geography, Italian, Hist., Jewish Hist. and Antiq. (Mocatta), Librarianship, London Hist., Philos. and Psychol., Phonetics, and Scandinavian

**MUSEUMS** Anat., Archit., Bot., Egypt., Engin., Geol. and Mineral., Vulcanological (Johnston-Lavis Collection), Zool. Two Astron. **OBSERVATORIES.**

**FACULTIES.** Arts, Laws, Science, Engineering, Medical Sciences. Deans: Profs Chambers, de Montmorency, Jeffery, Coker, Lovatt Evans

**COURSES.** Arts, Laws, Science, Engineering, Medical Prelim. and Intermediate, Hygiene. Open to students of both sexes. The Arts Faculty includes Slade School of Fine Art, School of Librarianship, School of Journalism, and Bartlett School of Archit. The Engineering Faculty includes Departments of Civil and Mechanical (with sub-depts. of Graphics, Surveying, and Heating and Ventilating), Electrical and Municipal Engineering. A Diploma in Engin. is given after a 3 yrs.' course, and Certificates in Engin. (2 yrs.); a Diploma in Archit. (5 yrs.) and a Certificate in Archit. (3 yrs.).

All departments of the College are available for **POST-GRADUATION AND RESEARCH WORK**, and the respective Professors are always prepared to advise such students desirous of undertaking research, whether for higher degrees or otherwise.

**DEPARTMENT OF APPLIED STATISTICS.** The *Francis Galton Laboratory for National Eugenics* was founded in 1904 for the study of those agencies under social control that may improve or impair the racial qualities of future generations, either physically or mentally. It is open to Research students in Eugenics of both sexes. The *Drapers' Company's Biometric Laboratory*, founded 1895, for the statistical study of biological problems, possesses a good collection of calculating machines, integrating mechanisms, moment-finders, as well as a large series of statistical models, measuring instruments, etc. Research workers can start any time during the session, but, unless attending the lectures in the Dept., are expected to have a preliminary training either in Biology or Maths.

Courses of Instruction are given on Statistics and cognate subjects, and also short courses of popular lectures. Fees (for Research workers) per term, £4:14:6. A Fee of 17 gs. per session admits to the Eugenic and

Biometric Labs. on all days and to all lectures, as well as to the use of the Library and of the material in the Archives. Fee for use of calculating machines, 1½ gs. per term. For list of publications, v. *infra*.

THE BARTLETT SCHOOL OF ARCHITECTURE was established by the combination of the Archit. Schools of University and King's Colleges. The Certificate (3 yrs.) and Diploma (5 yrs.) courses are recognized by the R.I.B.A. as exempting from the R.I.B.A. Intermediate and Final exams. respectively. The accommodation includes three large Studios, a Museum, a Cast Gallery, a Library, a Lecture Theatre, and a Class Room. Rooms are also provided for the Department of Town Planning instituted in Oct. 1914. The day work is supplemented by evening classes in design. There is an Atelier for graduates and advanced students.

FOREIGN STUDENTS are admitted to the College on the same terms as British. They are expected to produce identification papers. In August a *Vacation Course* is held in Phonetics and Spoken English (Director: Prof. Daniel Jones). Men attending that Course can reside at University College Hall, Ealing. Special courses in Aspects of British Life and Civilization take place *throughout the session*. The Secretary will always advise foreign students by correspondence or personal interview as to the cost of residence in London and as to suitable houses. The Ramsay Memorial Fellowships in Chemical Science founded by certain Foreign Governments are tenable at Univ. Coll., London, among other places; four Fellows from overseas are now working there.

FEES. Composition for 3 sessions' course in Arts—98 to 105 gs.; 5 sessions' course in Archit—228 gs.; 3 sessions' course in Science—135 to 140 gs.; Engin—168 gs.; Econ.—21 gs. per session, Mod. for 1st examn—35, 2nd—80 gs., Laws—Day 24 gs., Evening 18 gs. per session, Fine Art—28 gs. per session, for Higher Civil Service—50 gs. (35 gs. to those who have taken undergraduate course at the College).

SCHOLARSHIPS, ETC. Annual value, about £3200 (including £750, Entrance Scholarships)

RESIDENCE. A Hall for 52 men at Ealing, £2 to £3 a week. One for women in Byng Place, W.C. 1.

PUBLICATIONS. *Calendar* (Oct.), 3s. 6d.; *Annual Report*; *University College Magazine*; the various Faculty and Departmental Prospectuses; *Prospectus* of post-graduate courses and arrangements for research. Dept. of Applied Statistics: *Annals of Eugenics*, a Journal for the scientific study of Race Problems, 1-111.; *Eugenics Lab. Memoirs* (1-xxiv.) and *Lecture Series* (1-xiv., popular exposition of conclusions); *Treasury of Human Inheritance* (14 parts). *Biometrika Journal* (1-xx.); Drapers' Company Research Memoirs, *Biometric Series* (1-xii.), and *Studies in Natural Deterioration* (1-xii.); Drapers' Company *Technical Series* (1-vii.); *Tracts for Computers* (1-xv.). Ephemeral papers published in *Questions of the Day and the Fray* (1-xii.).

## THE YEAR 1927-28

BENEFACTIONS. Through the Centenary Appeal: Viscount Rothermere and Mr. Cecil Harmsworth, £30,000 for endowment of Lord Northcliffe Chair of Modern English Literature and Lord Northcliffe Lect'ship in Literature, in memory of their brother, the late Lord Northcliffe. Anonymous, for Research in Physical and Inorganic Chemistry, £1000; Carnegie U.K. Trust for School of Librarianship, £400; Drapers' Company for Biometrics, £500; per Italian Ambassador for Italian, £300; Rhodes Trust, towards Chair of Constitutiona

Law, £200 ; Chadwick Trust for Municipal Engineering, £100 ; Seton Memorial Lecture Committee, for endowment of annual or biennial lecture connected with St. Francis of Assisi, in memory of Dr. Walter Seton, £228. Incorporated Institute of Decorators, co-operation in institution of lectureship and Certificate Course in Decoration (Bartlett School of Architecture) ; The Misses Ker, Loving Cup presented to the late Prof. W. P. Ker on his retirement ; Walston Prize (£5) for Design, for Students of Architecture Atelier (given by Lady Walston).

**NEW POST** Lecturer in Pharmacological Chemistry.

**RETIREMENTS.** Prof J. N. Colhe ; Prof G. D. Hicks ; Prof L. W. Lyde , Prof. A. W. Porter ; Emer. Prof. J. A. Fleming ; Sidney Mawson (Ornamental Design) , Dr. T. G. Pinches (Assyriology). **RESIGNATIONS** Prof E. C. Williams ; Dr. Violet Anderson, to be Asst. Lectr. in Botany, Univ. Coll. , Cardiff ; C. Daryll Forde (Geography) ; Dr R. W. Lunt (Chemistry) , H. A. Matthews (Geography), to be Lectr. in Geography, Birkbeck College

**DEATHS.** Dr. H. H. L. Bellot, Dr W. C. Bolland, Emer. Prof F. M. Simpson

**IMPORTANT EVENTS.** In October, First Rickman Godlee Memorial Lecture by Viscount Cecil of Chelwood on " The Co-operation of Nations " , November, Portrait of Eminent Prof. J. A. Fleming by Sir William Orpen, R.A. , presented to the College by the Fleming Portrait Fund Committee , May, Physiological Laboratories and Theatre placed at disposal of Royal College of Physicians in connection with celebrations of Tercentenary of Harvey

**STUDENTS.** Full-time total, 1741, including 205 graduates Part-time total, 1313, including 300 graduates.

**DEGREES.** B.A. , 106 , B.Sc. , 94 ; LL.B. , 14 , B.Sc. (Eng.) , 26 , B.A. (Arch.) , 2 ; M.A. , 5 ; Ph.D. , 32 ; M.Sc. , 20 ; D.Sc. , 10 , LL.M. , 3 , LL.D. , 1 , M.Sc. (Eng.) , 1

# UNIVERSITY OF LONDON, KING'S COLLEGE AND KING'S COLLEGE FOR WOMEN

CHAIRMAN OF THE DELEGACY—LORD BLANESBURGH, M.A., LL D.

VICE-CHAIRMAN—A. J ALLEN.

TREASURER—SIR EDWARD TROUP, K C B , K C V O , LL D

PRINCIPAL—W R HALLIDAY, M A , LL D

DEANS OF FACULTIES See under "General Information"—Faculties.

SECRETARY—S T. SHOVELTON, M A Ox

TUTOR TO WOMEN STUDENTS—AGNES S PAUL, M A , B D

LIBRARIAN—F. W WALTON, M A

## PROFESSORS, LECTURERS, ETC.

### *Anatomy, Descrip and Surgical*

Blair, D MacCallum, M B., Ch B

Prof (A. and Anthropol).

Gladstone, R. J , M D , C M

Aberd., D.P.H., F.R.C.S.

Reader (Human Embryology) and Lectr. (A. and Anthropol)

Compton, A, F R.C.S

Lectr. (Applied A ).

2 Demrs.

### *Anthropology, v Anat.*

### *Art, Ecclesiastical*

Dearmer, P., D D Ox. Lectr.

### *Assyriology*

Gadd, C J., M A Ox. Hon. Lectr.

Smith, S., M A. Camb Hon Lectr.

### *Bibliography, v English*

### *Biology, v. Zool*

### *Botany and Plant Biology*

Gates, R. Ruggles, M.A. Mt.

Allison, B Sc. McG., Ph.D.

Chic. Prof.

Schwartz, E. J., M.A., D Sc.

Wright, E. C. Barton, B.Sc.

Lectrs.

### *Chemistry*

Smiles, S., O B.E., D Sc , F R S.

Daniell Prof.

Allmand, A J , D.Sc. Liv. Prof.

Cremier, H W., M.Sc ,

A M I Chem.E Senr Lectr.

Fairbourne, A , M A Ox., M.Sc.

Manc. Lectr.

Salmon, C. S , M Sc Bris. Lectr.

Asst Lectrs

Dolley, L G F , B Sc , Ph D.

Gregg, S J , Ph D.

McClelland, E. W., D Sc , Ph D ,

A I C

2 Demrs

### *Classics, v. also History*

Thomson, J. A. K., M A. Prof.

The Principal Lectr.

Knight, Clara M., D.Lit. Reader.

Hall, E B., M.A Lectr

Handford, S. A., M.A. Ox

Asst Lectr.

Bevan, E. R., O.B.E., M A., D Litt.

Ox , LL.D. St. And.

Lectr. (Hellenistic Greek and History).

### *Czecho-Slovak, v. Slav.*

### *Economics, v. Hist.*

*Education*

- Wilson, J. Dover, M.A. Camb,  
Litt.D. Prof.  
Hill, J. C., M Sc Durh. Lectr.  
Sykes, Betsy, M.A. Asst. Lectr.  
Raven, R. A., M A Ox.  
Asst. Lectr.  
1 Asst.

*Engineering, Civil*

- Jameson, A. H., M Sc. Manc.  
Prof.  
Lobban, C. H., D.Sc. (Eng.)  
Sr. Lectr.  
White, C. M., B.Sc. Asst. Lectr

*Engineering, Electrical*

- Wilson, Ernest, M.I.C.E., M.I.E.E.  
Siemens Prof.  
Robertson, F. Steele, M.I.E.E.  
Sr. Lectr.  
Clarke, H. M., B.Sc., B Sc. (Eng.)  
Lectr.

*Engineering, Mechanical*

- Cook, Gilbert, D Sc. Manc. Prof.  
Davies, S. J., M Sc. Durh., B Sc.  
(Eng.) Reader.  
Giffin, A., B Sc Asst. Lectr.

*English*

- Gollancz, Sir Israel, Litt.D. Camb,  
F.B.A. Prof  
Pollard, A. W., C.B., M.A. Ox.,  
D.Litt. Durh.  
Prof. (E. Bibliography).  
Reed, A. W., M.A., D.Lit. (also  
Tutor for *Journalism* courses)  
Prof.  
Day, Mabel, M.A., D Lit  
Lectr. (E. Philology).  
Ingram, E. Gwendolen, M.A.  
Lectr. (E. Philology).  
Isaacs, J., M A. Ox.  
Asst. Lectr. (E. Lit.).  
Harrison, G. B., M.A. Camb.  
Asst. Lectr. (E. Lit.).  
1 Asst.

*French*

- Saurat, D., D. ès L. Prof.

Stone, Louise W., M.A.

- Reader (Romance Philol )  
Hughes, R. W., M.A. Ox., Dip.  
d'E.S., Paris Lectr.  
Jones, R A., B.A. Asst. Lectr.  
McKechnie, Margaret M. McL,  
M.A. Glas., L. ès L.  
Asst. Lectr.

2 Assts.

*Geography*

- The Profs. of Botany, Geol, Civil  
Engin., Imperial Hist,  
Physics (in conjunction with  
staff of London School of  
Economics).

*Geology*

- Gordon, W. T., M A Camb, M A.  
Edin., D Sc. Prof.  
Wells, A. K., D Sc. Lectr.  
Wooldridge, G. W., M Sc.  
Asst. Lectr.

*German*

- Atkins, H. G., B A. Camb., M.A.,  
D.Lit. Prof.  
Steppat, J., Ph.D. Vien., B.A.  
Reader.  
Buchheim, Emma S. Lectr  
Haltenhoff, A. G. Lectr.  
Rose, W., M.A., Ph D. Lectr.

- Greek, Modern, and Byzantine  
Hist.* [Koraes Prof  
Marshall, F. H., M.A. Camb.

*Hebrew*

- Hollis, F. J., B D. Lectr

*Histology*, v. Physiol.

- History*, v. also Classics, Greek,  
Slav, Roum.  
Hearnshaw, F. J. C., M.A. Camb.,  
LL.D. Dub. Prof.  
Newton, A. P., B.Sc., D.Lit.  
Rhodes Prof of Imperial H.  
Warmington, E. H., M.A.  
Reader in Ancient H.



Sykes, N., M.A., D.Phil. Ox.,  
M A. Leeds

Lectr. (Mediæval H )

Levett, Ada E., M.A. Ox. Lectr.

Driver, C. H., M.A. Asst Lectr

O'Donnell, Beatrice A. M., B A.

Asst. Lectr.

Jenkins, C., M.A. Ox., D D.

Prof. (Eccl. H.) and

Reader (Greek and

Latin Palæog.)

Jenkinson, Hilary, M.A. Camb.

Reader (Diplomatic and

English Archives).

i Asst.

*Household and Social Science*,  
v. *infra*

*Italian*

Vincent, E R P, M A Lectr

*Journalism*, v. English

*Law*, v p. 172

*Materia Medica and Pharmaco-*  
*logy*

Inchley, O., M.A , M.D Camb

Lectr.

*Mathematics*

White, S. A. F., M.A. Ox Prof.

Jolliffe, A E , M A. Ox Prof.

Dale, J. B., M.A. Camb., B.A.

Asst Prof.

Shovelton, S. T., M.A. Ox. Lectr.

Asst. Lectrs :

Henderson, J., M A., B.Sc

Davies, H. R., B Sc.

Heath, A. C., B.A.

Combridge, J. T., M.A. Camb ,  
M Sc.

*Military Science*

Maurice, Maj-Gen. Sir Frederick

B , K C.M.G., C.B Prof.

*Palæography*, v. Hist.

*Pharmacology*, v. Mat. Med.

*Philology*, v. English, French,  
Slavonic

*Philosophy*, v. also Psych.

Carr, H. Wildon, D.Litt. Durh.

Prof.

Oakeley, Hilda D., M A. McG.

Reader.

Matthews, W. R., M.A , D.D.

Prof. of the Philosophy  
of Religion.

*Phonetics*, v. English

*Physics*

Appleton, E. V., M A. Camb.,  
D Sc Wheatstone Prof.

Richardson, O. W., M.A. Camb.,  
D.Sc , F.R S.

Yarrow Research Prof  
(Royal Society's).

Flint, H. T , D.Sc. Birm., D.Sc.,  
Ph.D Reader.

Worsnop, B. L., B Sc. Lectr.

Williams, W. E , B.Sc. Lectr.

Fisher, Joseph W., B Sc., Ph D.

Asst Lectr.

2 Demrs.

*Physiology*

McDowall, R. J. S., M B. Edin.,  
D.Sc , Ch B. Prof.

de Souza, D. H., M.D , D.Sc ,  
F R C.P. Lectr.

Hewitt, J. A., D Sc , Ph.D. St.  
And. Lectr.

Hon Lectrs :

Negus, V E , M.B , Ch.M ,  
F.R C.S (Laryngology).

Pickering, J. W., D.Sc (Hæmato-  
logy).

3 Demrs

*Polish*, v. Slav.

*Portuguese* [Camoens Prof

Prestage, E., M.A., D Litt.

Bentley, W. A. Lectr.

*Psychology*

Avcling, F. A. P , D.D. Rome,  
Ph.D. Louv., D Sc. Reader.

Hadfield, J. A., M.A. Ox., M.B.,  
Ch.B. Edin. Lectr.

Bartlett, R. J., M.Sc. Lectr.

2 Hon. Demrs.

- Romance*, v. French  
*Roumanian*  
 Beza, M., L. ès L. Lectr.  
 Steed, H Wickham  
     Lectr. in Social and Economic History.  
*Russian*, v. Slav.  
*Serbian*, v. Slav.  
*Slavonic Studies*  
 Pares, Sir Bernard, K.B.E., M A. Camb.  
     Prof. (Russian Hist ), Dir of the Dept  
 Jopson, N. B , B.A. Camb.  
     Reader (Comparative S. Philology).  
 Raffi, Arshak  
     Lectr. (Russian Lang ).  
 Mirsky, Prince D. S , of Petrograd and Kharkov Univs.  
     Lectr. (Russian Lit ).  
 Williams, H , Ph D. Munich  
     Lectr. (Russian Ethnog.).  
 Meyendorff, Baron A. F , of Petrograd  
     Reader (Russian Institutions, etc )  
 Wharton, L., M.A. Ox.  
     Lectr (Polish Lang and Lit.)  
 Seton-Watson, R. W., D Litt Ox , Ph D. Prague and Zag.  
     Masaryk Prof. (Central European History).  
 Subotić, D., Ph D. Munich  
     Reader (Serbo-Croatian Lang. and Lit.).  
 Vočadlo, O., Ph.D. Prague  
     Lectr. (Czecho-Slovak Lang. and Lit.).  
 Evans, Ifor L , M.A., B Sc. (Econ.).  
     Lectr. (Economic Hist. of Central Europe and the Balkans).  
*Spanish Studies*  
 Pastor, A. R., B Litt. Ox., D Ph. Madrid Cervantes Reader.  
 Villasante, J. M., LL.D. Madrid  
     Sr. Lectr.

- Perry, Janet, M.A. Lectr.  
 Carey, J. R., B.A. Asst Lectr.

*Theology*, v. p. 154

- Zoology and Animal Biology*  
 MacKinnon, Doris L., D Sc Aberd.  
     Prof.

- Huxley, J. S., M.A. Ox  
     Hon. Lectr.  
 Tribe, Margaret, D.Sc. Lectr.  
 Brambell, F. W. R., B A , D Sc , Ph D. Lectr.  
 2 Demrs

**Household and Social Science Department**

- Biology* [Reader.  
 Esdaile, Philippa C., D.Sc. Manc.  
 Crofts, Doris, M.Sc. Asst. Lectr

- Chemistry*  
 Tinkler, C. Kenneth, D.Sc Birm., B Sc. Lond and Wales Prof.  
 Jackman, Agnes, B.Sc Lectr.  
 Paterson, M Joyce, B.A. Ox. ,,

- Economics and Business Affairs*  
 Reynard, Helen, M A Ox Lectr.  
 Stanners, Harold, B.Sc (Econ.)  
     Lectr.

- Household Work*  
 Lindsay, Jessie Sr. Lectr.  
 Wood, Edith Lectr.  
 Tress, Helen Asst Lectr.

- Institutional Administration*  
 Shirras, Florence E. F. Lectr.

- Hygiene and Bacteriology*  
 Proctor, Ruth, M B , Ch.B , D P.H., M.A. Lectr.  
 Dukes, Cuthbert, M D., M Sc , D.P.H. Lectr.

- Physiology* [Prof.  
 Mottram, V. H., M.A Camb.  
 Hartwell, Gladys, D.Sc. Lectr.  
 Clifford, Winifred M., M.Sc.  
     Asst. Lectr.

- Physics*  
 Dillon, Teresa J., B.Sc. Lectr  
 Hamilton Smith, Eliz., M.A. Demr.

## GENERAL INFORMATION

Address—Strand, W.C.2. Telephone—City 9851.

Founded by Royal Charter in 1829 for "instruction in the various branches of Literature and Science and the doctrines and duties of Christianity," King's College consisted at first of a School and Departments of General Literature, Science, and Medicine, to which were added successively Engineering, Theological, and Oriental Depts. The Hospital was built in 1839, the Evening Classes were started in 1856, and a Women's Dept in 1881. In 1910 the College School became a separate Corporation, the Hospl and Advanced Med School were made independent, the other Depts. (except the Theological) doing work of University standard were incorporated in the Univ. of London, while the Council remained the governing body of the Theol Dept, which became a School of the Univ. In 1915 the Arts and Science Departments of King's College for Women, previously housed in South Kensington, were transferred to the buildings of King's College, and the Household and Social Science Department to new buildings on Campden Hill. In 1925 the School of Slavonic Studies and the Slavonic Library were transferred to rooms in the Institute of Historical Research (Malet Street).

**LIBRARY**, 75,000 vols, including the Marsden (Philol and Oriental), Skeat and Furnivall (English), Wheatstone (Electricity, etc), Slavonic, and Byzantine and Modern Greek collections

**LABORATORIES AND MUSEUMS** Anat (Hughes Collection), Comp. Anat, Biol., Bot., Chem., Engin., Geol. and Mineral, Mat. Med., Metall., Pharmacol., Physics, Physiol. (including Bio-Chem. and Histol.), Psych., Zool.

**FACULTIES.** Arts, Laws, Natural Science, Medical Science, Engineering. Theology. Deans: Prof. Atkins (German), H. J. H. Mackay, Prof. White (Maths), Prof. R. J. McDowall, Prof. Cook, Rev. W. R. Matthews.

*Evening Class Department* (classes in connexion with faculties of Theology, Arts, and Law). Dean, Prof. Sir Israel Gollancz.

**DEGREE COURSES** in Arts, Science, Laws, Engineering. Prelim. and Interm. courses in Medicine, and courses for the First and Second Examns. for Dental Degrees. Day Training College under the Board of Education. Dept. for training secondary Teachers (men and women).

Engineering students receive preliminary workshop training in their first year. Facilities are provided for spending half of each summer vacation in engineering works. Those taking 4-years' course spend part of each year (18 months in all) in practical training.

*College Diploma* course in Engineering, ordinarily 3 yrs. The *Associateship*, open to men and women who have graduated after a three-years' course and have also attended a prescribed course in Divinity. *Certificates* in Palæography, Italian, Hebrew, Spanish, Portuguese, Russian, Czecho-Slovak, Serbo-Croat, and Polish.

**THE HOUSEHOLD AND SOCIAL SCIENCE DEPARTMENT** (Warden—Miss Helene Reynard, M.A.) at Campden Hill Road, W.8, a Department of King's College for Women, though retaining the title, is entirely separate. It provides full degree courses for the B.Sc. in H. and S.Sc. Tuition Fees, 45 gs. per session. Residence from 75 to 93 gs. Number of full time students in 1926, 147.

**ADVANCED STUDY.** Special facilities in English (including Bibliography), History (especially Mediæval, Colonial, Naval, Eastern Europe, and Ancient),

Slavonic, Spanish, Portuguese, Modern Greek, Education, and several Depts. of Science.

**FEES.** Tuition per Session, including fees for games, library, and union society: Arts, 30 to 37 gs. (Psychology, Honours course, 34 gs.); Science, 35 to 50 gs.; Med., 35 to 40 gs.; Laws, 18 to 24 gs.; Engin., 48 to 60 gs.

**SCHOLARSHIPS FOR GRADUATES.** In Arts 2, aggregate value £115 p.a.; Science 3, ag. value £290 p.a.

**RESIDENCE.** Two hostels for men (one Theol. for 65 men and one general for 80 men), and one for (50) women (these Hostels are recognized by the Board of Education); also Q. Mary's Hostel and Annexe in the Household and Social Sc. Dept. buildings at Campden Hill with accommodation for 130.

A REGISTER OF FORMER STUDENTS is maintained, in which changes of address are recorded without charge.

**PUBLICATIONS.** Separate Syllabus for each Faculty post free. *Calendar*, 4s. 6d post free; *K C. Review*; *K C Magazine* (Students—Household and Social Science Dept.).

## THE YEAR 1927-28

**BENEFACTIONS** Polish Government, grant to provide a Lecturer in Polish Language and Literature Friends of Dr. Hubert Hall, Prize in Palæography to be called by his name

**NEW BUILDINGS** A site was acquired over the Aldwych Underground Railway Station for the construction of a five-storey building, which was begun at the end of the session. It is hoped that the new rooms, which will provide accommodation for the Departments of Geology and Geography, Education, History, Classics, and French, will be ready for occupation in June 1929. A lift was constructed in the centre of the College building to connect all floors from the sub-basement to the roof.

**NEW DEVELOPMENTS** A Lectureship in Polish and a Readership in Geology instituted. A special post-graduation course in Chemical Engineering provided to meet the growing need for dealing with general principles of applied chemistry as a preparation for industrial posts. A scheme inaugurated whereby candidates for the French Honours Degree may spend the whole of the second year of their three years' course at a French University. A certificate in Syriac, to be awarded after one year's study, instituted. Special whole-time intensive courses in preparation for the Primary F R C S. introduced in the Departments of Anatomy and Physiology. Under the new scheme for the closer association of Training Colleges with the University, Furzedown, Whitelands and Stockwell Training Colleges will form a group attached to King's College.

**INTERCHANGE** The Dean of King's College visited the United States in April 1928 to deliver the Nobel Lectures at Harvard University. Prof. Seton-Watson delivered two lectures in Prague, Baron Meyendorff, Reader in Russian Institutions, lectured at a number of Univs in U.S.A. Three Lecturers in the School of Slavonic Studies, Prince Mirsky, Dr. Subotić, and Dr. Vočadlo, were in charge of Summer Courses at Columbia University. Prof. Richardson represented the Physical Society at the International Congress of Physicists at Como in September 1928, and attended the Fresnel Centenary Celebrations in Paris and the Fifth Solvay Physics Conference in Brussels. Prof. Appleton represented the College at the International Conference on Radio-Telegraphy, Washington. S. J. Davies gave courses of lectures at the Technische Hochschule, Charlottenburg, at Dusseldorf, at Essen

## KING'S COLLEGE & KING'S COLLEGE FOR WOMEN 131

and Dresden. Among visitors who lectured in the College were : Dr. S. Ahmad Khan (Allahabad) ; Dr. Carlo Anti (Padua) ; M. Paul Valéry (Paris) ; Prof. Cassirer (Hamburg) ; M. N. V. Arseniev (Konigsberg) ; Prof. Dixon Ryan Fox (Columbia) ; Prof. E. H. Stephenson (Hispanic Society of America), Señor Don F. J. Sanchez Cantón (Madrid), M l'Abbé Bréucl (Paris) ; Dr. J. A. Bierens de Haan (Amsterdam) ; Dr. K. Bělăr (Berlin).

RESIGNATIONS. Principal Ernest Barker, on his appointment as Professor of Political Science, Cambridge ; Miss A. E. Levett, Tutor to Women Students ; B. C. L. James ; Dr. F. Bath ; J. T. M. Gray ; Dr. W R. Hurtley, H. C. Prew ; Miss M. E. Shaw.

STUDENTS. Full-time day students working for a degree or diploma (including Theology) : total, 1412, including 177 graduates.

Part-time : total, 4039, including 136 graduates.

DEGREES OBTAINED. B A., 96 ; B Sc., 61, B.Sc. Engineering, 27 ; LL.B., 5 ; Diplomas, 86. Higher Degrees M.A., 14 ; M.Sc., 9, Ph.D., 15 ; LL.D., 2 ; D Sc., 1.

# SCHOOLS OF THE UNIVERSITY

## IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY

VISITOR—H.M THE KING.

CHAIRMAN OF THE GOVERNING BODY—Rt. Hon. LORD BUCKMASTER.

RECTOR—SIR THOMAS HOLLAND, K.C.S.I., K.C.I.E., D.Sc, LL.D  
F R S

SECRETARY—A GOW, M.A, B.Sc

ASSISTANT SECRETARY, SECRETARY TO THE DELEGACY, AND REGISTRAR  
—G. C. LOWRY, M.A.

### PROFESSORS, LECTURERS, ETC.

#### *Aeronautics*

Barstow, L., C.B.E., A.R.C.S.,  
F.R.S. Prof. (Aviation).

Walker, Sir Gilbert T, C.S.I.,  
M.A, Sc.D, Ph.D, F.R.S.  
Prof. (*Meteorology*).

Hill, F. T, F.R.Ae., S.M.I.Ae.E.  
Asst Prof (Design)

#### Lectrs

Richmond, V. C., O.B.E., B.Sc,  
A.R.C.S.

Rowe, A P, B.Sc., A.R.C.S.,  
D.I.C

Farren, W. S, M.B.E., M.A. Camb  
(Strength of Structures).

Moss, H, D.Sc., A.R.C.S., D.I.C.  
(Engine Design).

Stern, W. J., B.Sc, A.R.C.S.,  
D.I.C. (Engine Design).

2 Demrs.

#### *Astrophysics*

[Prof  
Fowler, A, A.R.C.S., D.Sc, F.R.S  
(Yarrow Research Prof.)

#### *Bio-Chemistry*

Schryver, S B, Ph.D Leip, D.Sc,  
F.R.S Prof.

#### *Biology, v. also Bot., Zool.*

Tabor, R. J., B.Sc. Asst. Prof.  
Paine, S. G., D.Sc. Asst Prof.

Hewer, H. R., A.R.C.S., M.Sc,  
D.I.C. Lectr.

Howarth, F., B.Sc, A.R.C.S.  
Lectr.

Henderson, F. Y, M.A, D.Sc.  
Lectr.

5 Demrs.

#### *Botany*

Farmer, Sir John B, M.A, D.Sc.  
Ox., LL.D. Edin., F.R.S. Prof.

Blackman, V. H., M.A, Sc.D.  
Camb, F.R.S.

Prof. (Plant Physiol. and  
Path).

Groom, P., M.B.E., M.A. Ox and  
Camb., D.Sc Ox, B.Sc. Birm.,  
F.R.S.

Prof. (Tech of Woods &  
Fibres)

Brown, W, M.A, D.Sc  
Prof (Plant Path).

4 Research Plant Physiologists.

#### *Chemical Technology*

Bone, W. A., D.Sc. Manc., Ph.D.  
Heid., F.R.S. Prof.

Hinchley, J. W., A.R.S.M., F.I.C.,  
M.I.Chem.E.

Prof. (C. Engineering).

Finch, G. I., M.B.E., Dip. T.C.  
Zürich

Asst Prof (*Electro-  
Chemistry and Electro-  
thermics*).

Himus, G. W., B.Sc., A.R.C.S.,  
D.I.C. Lectr (*Fuel*).

Hancock, W. C., B.A. Camb.  
Lectr. (*Refr. Mat. & Sil-  
icates*)

Ure, S. G. M., M.A., B.Sc. Glas.  
Lectr

1 Demr.

### Chemistry

Baker, H. Brereton, C.B.E., M.A.,  
D.Sc. Ox., LL.D. Aber.,  
F.R.S. Prof

Thorpe, J. F., C.B.E., D.Sc.  
Manc., Ph.D. Heid., F.R.S.  
Prof. (*Organic C*)

Philip, J. C., O.B.E., M.A., D.Sc.  
Aberd., Ph.D. Gött., F.R.S.  
Prof. (*Physical C*)

Whiteley, Martha A., O.B.E.,  
D.Sc., A.R.C.S. Asst. Prof

Harwood, H. F., M.Sc. Manc.,  
Ph.D. Heid. Lectr

Eldridge, A. A., B.Sc. Lectr.

Sugden, J. N., Ph.D., D.I.C. Lectr.

Ellingham, H. T., B.Sc., A.R.C.S.  
Lectr

Bull, P. C., D.S.O., A.R.C.S. Lectr

Kon, G. A. R., M.A., D.Sc.,  
D.I.C. Lectr.

Pollard, A. G., B.Sc., A.R.C.S.  
Lectr

7 Demrs

*Engineering, Chemical, v. Chem  
Tech.*

*Engineering, Civil, and Surveying*

Dixon, S. M., M.A., M.Sc., B.A.I.  
Dub. Prof.

Clements, R. G. H., M.C.  
Prof. (*Highway Engin*)

Purser, J., B.A., B.A.I. Dub.,  
M.Sc. Birm. Asst. Prof.

Rice-Oxley, K., A.C.G.I.,  
A.M.I.C.E. Asst. Prof.

Shearer, W. V., B.Sc. Lectr.  
2 Demrs., 1 Asst.

*Engineering, Electrical*

Fortescue, C. L., O.B.E., M.A.  
Camb. Prof.

Mallett, E., D.Sc. (Eng.)  
Asst. Prof.

Rushton, A., M.Sc. (Tech.) Manc.  
Lectr.

Sims, J. W., A.M.I.E.E. Lectr.

Hopkin, D. W., A.M.I.F.E. Lectr

Sutton, G. W., B.Sc. Lectr.

Barrett, A. H., B.Sc., A.C.G.I.,  
D.I.C. Lectr.

5 Demrs., 1 Asst

*Engineering, Mechanical, and  
Motive Power*

Dalby, W. E., M.A. Camb., B.Sc.,  
F.R.S. Prof

Witchell, E. F. D., B.Sc., A.C.G.I.  
Asst. Prof.

Cruickshank, A., M.I.Mech.E  
Asst. Prof.

Howard, J. V., D.Sc. Asst Prof

Smith, S. L., D.Sc., A.C.G.I.  
Asst. Prof.

Lewitt, E. H., B.Sc. (Eng.) Lectr.  
Cawley, G. M., A.M.I.Mech.E

Lectr.

Dyson, F., B.Sc., A.C.G.I. Lectr

Collins, W., B.Sc., A.C.G.I. Lectr.

Long, J. N., B.Sc. Lectr.

4 Demrs., 2 Assts.

*Forestry, v. Botany*

*Fuel, v. Chemical Technology*

*Geology, Mining Geol., and Oil  
Tech.*

Watts, W. W., M.A., Sc.D. Camb.,  
M.Sc. Birm., LL.D. St. And.,  
F.R.S. Prof.

Cullis, C. G., D.Sc.  
Prof. (*Econ. Mineralogy*).

Davies, A. M., D.Sc., A.R.C.S.  
Asst. Prof. (*Palæont.*).

Illing, V. C., M.A. Camb  
Asst. Prof. (*Oil Tech.*).

Brammall, A., M.Sc., Ph.D., D.I.C.  
Lectr. (*Petrology*).

Wolf, A. Lectr.

Milner, H. B., M.A. Camb., D.I.C.  
5 Demrs. Lectr.

*Mathematics and Mechanics*

Chapman, S., M.A. Camb., D.Sc.  
Vict., F.R.S. Chief Prof

Levy, H., D.Sc. Ox., M.A., B.Sc.  
Edin. Prof

Odell, W. L., A.R.C.S. Asst. Prof.

Dean, W. R., M.A. Asst. Prof.

Zanstra, H Asst Prof  
Lectrs.:

Hodgson, T., B.A. Ox., B.Sc

Milner, L. G., A.R.C.S.

Dickson, T. W., B.A. Ox., M.C.

Harvey, J., B.Sc., A.R.C.S.

Kebby, C. H., M.Sc., A.R.C.S.

Reeve, W., A.M.I.C.E.,

A.M.I.Mech E

9 Demrs.

*Metallurgy* [Prof.

Carpenter, H. C. H., M.A. Ox.,  
Ph.D. Leip., A.R.S.M., F.R.S

Merrett, W. H., A.R.S.M.,  
M.I.M.M., F.I.C. Asst. Prof.

Courtman, E. O., A.R.S.M.  
Asst. Prof.

Dannatt, C. W., A.R.S.M., D.I.C.,  
A.Inst.M.M., A.M.I.P.T.

Lectr

Chapple, H. M., A.R.S.M. Lectr.  
3 Demrs.

*Meteorology*, v. Aero

*Mineralogy*, v. Geol.

*Mining*, v. also Geol. [Prof.

Truscott, S. J., A.R.S.M., M.I.M.M.

Cooke, L. H., A.R.S.M., M.I.M.M.

Prof (Mine Surveying).

Holman, B. W., O.B.E., A.R.S.M.,

M.I.M.M. Asst. Prof.

Sillick, W. E. G., A.R.C.S., D.I.C.  
Asst. Prof.

Webb, A. H., M.I.M.M. Lectr.

Wilkins, F. G. R., B.Sc., A.R.C.S.  
Lectr.

3 Demrs.

*Oil*, v. Geol.

*Optics, Technical* [Prof.

Rankine, A. O., O.B.E., D.Sc.

Conrady, A. E., A.R.C.S.

Prof. (O Design).

Pollard, A. F. C., A.R.C.S.,  
F.Inst.P., A.M.I.E.E.

Prof. (O.E. (Mech.) and  
Instrument Design).

Martin, L. C., D.Sc., A.R.C.S.,  
D.I.C. Asst. Prof

1 Demr.

*Petrology*, v. Geol.

*Physics*, v. also Astrophysics

Callendar, H. L., C.B.E., M.A.  
Camb., LL.D. McG., F.R.S

Prof.

Rankine, A. O. (v Optics) Prof.

Dingle, H., B.Sc., A.R.C.S.  
Asst. Prof.

Gregory, H. S., Ph.D., D.I.C.  
Asst. Prof.

Lectrs.:

Brinkworth, H., M.Sc., A.R.C.S.

Bell, Mary, B.Sc., A.R.C.S.

Green, S. E., A.R.C.S.

Archer, C. T., M.Sc., A.R.C.S.

Ensor, C. R., B.Sc., A.R.C.S.

8 Demrs.

*Refractory Materials and Silicates*, v. Chemical Tech.

*Woods and Fibres*, v. Botany

*Zoology*, v. also Biol. [Prof.

MacBride, E. W., M.A. Camb.,  
LL.D. McG., D.Sc., F.R.S.

Balfour Browne, F., M.A. Camb.  
Prof. (Entomology).

Munro, J. W., D.Sc., M.A.  
Asst. Prof (Entomology)

## GENERAL INFORMATION

Address—Imperial Institute Road, S. Kensington, S.W.7.

Telegrams—Scientist, Southkens, London. Telephone—4526 Kensington

Founded by Royal Charter in 1907 for the purpose of giving the highest specialized instruction and providing the fullest equipment for the most



advanced training and research in various branches of Science, especially in its application to Industry, the Imperial College includes as integral parts the following Associated Colleges :

The Royal College of Science.

The Royal School of Mines

The City and Guilds (Engineering) College.

The departments and (in brackets) sub-departments are : Aeronautics (Aerodynamics, Meteorology), Biology (Bio-Chemistry, Plant Physiology and Pathology, Technology of Woods and Fibres), Chemical Technology (Chemical Engineering, and Fuel and Refractory Materials), Chemistry (Inorganic, Organic, and Physical), Engineering—Civil and Surveying, Electrical, Mechanical, and Motive Power, Geology (Economic Mineralogy, Mining Geology, Technology of Oil), Mathematics and Mechanics, Metallurgy, Mining (Mining Geology, Mining Surveying), Technical Optics (Optical Design, Instrument Design), Physics (Astrophysics), Zoology (Entomology).

The total staff exceeds 200. For the purpose of internal degrees of the Univ. the College is a School of the University in Science and Engineering. Students who are registered as candidates for one of the Associateships awarded following a course satisfactorily completed at the College, and who have matriculated at the University of London by examination or exemption, are eligible to proceed to the B Sc. (Special) Degree of the University, in the Faculties of Science or Engineering, on the examinations for the relative Associateship, provided the University's regulations are complied with. This arrangement is subject to review after five years from the date of its commencement (1927) The buildings occupy about 8 acres and cost with equipment over £1,000,000.

The courses of study are designed for students of University standard whose occupations in life will be concerned with the scientific aspects of industries.

**LIBRARIES, ETC.** The Library of the Science Museum is available for the use of Students, and each Dept. is provided with a special Library, **RESEARCH LABORATORIES**, and full facilities for advanced study.

**ADMISSION.** The conditions of admission are as under, but the College reserves power to admit in special cases candidates whose qualifications do not in every respect coincide with those prescribed, but whose previous training fits them to take full advantage of the course proposed ; the prescribed qualifications give no right to admission, but will be considered with others of which the candidate may give evidence. (i.) *R.C.S. and R.S.M.* A candidate for admission must be as a rule not less than 17 yrs of age. For admission to 1st yr. Assoc. courses an Entrance examn. in Maths. and Mechanics, Chem. Physics, Engl., French or German or Spanish or Italian, and Geometrical or Freehand Drawing, must be passed, unless equivalent examns have been passed elsewhere. (The Matricn. examn. of the Univ. is considered equivalent provided the student has passed in "More Advanced Maths." and "Elem. Mechanics," and in the other subjects prescribed for the Entrance examn.). Candidates for admission to a 2nd yr. must pass the College Entrance examn. in more advanced Maths, Mechanics, Chem, and Physics, unless equivalent examns. have been passed elsewhere. For admission to a 3rd yr. candidates must have reached a standard correspondingly higher. (ii.) *City and Guilds.* A candidate desiring to enter for the 1st yr of the Assoc'ship course must be at least 16 yrs. of age and must pass entrance examn. in Maths. and Mechanics, Geom. Drawing, Phys., or Chem., Engl., and French or German or Italian or Spanish, unless he has passed the Matricn. examn. of the Univ., taking

certain specified subjects, including More Advanced Maths. For admission to the 2nd yr. course candidates must take the easier and more advanced papers, Geometrical and Machine Drawing, and practical Chem. in the College examn., or they must have passed the Intern. B.Sc. (Eng.) in the Univ. in Maths., Pure and Applied, Heat, Electricity and Magnetism, Engineering, Drawing and Design, and Chemistry. Candidates for admission to advanced or research work in the *R.C.S.*, *R.S.M.*, or *C. and G.* are admitted on satisfying the Coll. authorities as to their previous training.

**DIPLOMA AND OTHER COURSES.** Associateship of each of the 3 associated Colls., 3 or 4 yrs.; specially arranged courses in Advanced Science or Technology, 1 or more yrs, leading to the Diploma of the Imperial Coll.; short courses dealing with special subjects for graduates or persons engaged in scientific industrial pursuits; occasional courses to suit individual needs.

**FEES.** Entrance, £2; Tuition, per session, for full-time Associateship or Post-Associateship courses of study, £62 10s. (including Union fees); for less than full-time courses, *pro rata*; for Research Work the fee is £22 : 10s. per session (including Union fees), but an additional charge may be made for expensive apparatus or chemicals. Graduates from other Institutions taking the 4th year Associateship course in Botany will be charged fees at the Research rate of £22 : 10s.

**SCHOLARSHIPS** for post-grad. work: Beit Fellowship for Research, v. Appendix XXIII. (iv.); £300 Plimmer Fellowship in Pathology; £100 in Botany; and many others (v. *Calendar*).

**AFFILIATION, ETC.** The Univ. of Sheffield is associated with the Coll. for Advanced Studies in the Metallurgy of Iron and Steel. Students of Huddersfield Technical Coll. may be admitted, subject to certain conditions, without examn.

**PUBLICATIONS.** *Calendar*; *Annual Report*, with list of members, pubd. by members of the Coll.

## THE YEAR 1927-28

**RESIGNATIONS.** H. Klugh, Assistant Professor in Mechanics and Mathematics; C. J. Stubblefield, Ph D., Demonstrator in Geology, and Warden of the Imperial College Hostel; W. H. Dearden, Demonstrator in Metallurgy; G. F. J. Temple, Ph.D.

**DIPLOMAS GRANTED.** A.R.C.S., 65; A.R.S.M., 26; A.C.G.I., 76; D.I.C., 93. Total, 260.

**STUDENTS.** Full-time, 917, including 221 graduates. Part-time, 90, including 47 graduates.

**DEGREES OBTAINED.** B.Sc. in Science, 66; in Engineering, 61; higher degrees in Science: Ph D., 34; M.Sc., 17; D.Sc., 8; higher degrees in Engineering: Ph D., 6; M.Sc., 13; D.Sc., 1.

# EAST LONDON COLLEGE

CHAIRMAN OF THE COLLEGE COUNCIL—E. DE QUINCEY QUINCEY

PRINCIPAL—J. L. S. HATTON, M.A.

REGISTRAR—E. J. WIGNALL.

## PROFESSORS, LECTURERS, ETC.

<i>Aeronautical Engineering</i>		John, W. J., D.I.C., A.M.I.E.E.	
Piercy, N. A. V., D.Sc. (Eng.)	Lectr.	Castellain, A. P., B.Sc.	Lectr.
<i>Botany</i>	[Prof.]	<i>English Lang. and Lit.</i>	
Fritch, F. E., Ph.D. Mün., D.Sc.		Nicoll, J. R. Allardyce, M.A. Glas.	Prof
Haines, F. M., B.Sc., Ph D. Lectr.		Lectrs. :	
Carter, Nellie, D.Sc. Birm. Lectr.		Williams, O. T., M.A. Wales	
<i>Chemistry</i>		Budd, F. E., B.A.	
Partington, J. R., M.B.E., D.Sc.	Prof.	<i>French Lang. and Lit</i>	
Manc.		Dechamps, J., D.Phil., D. ès L.	*
Robertson, A, M A, B Sc, Ph D		Liège	
Glas		Halket, Eliz. C., M.A.	Lectr.
Jones, D. C., M Sc. Wales, Ph.D.	Lectr.	Rozelaar, L. A., M.A.	Lectr.
Johns Hopkins		<i>Geography and Geology</i>	
Patterson, W. H., D Sc. Manc.	Lectr.	Smith, H. G., B.Sc., A.R.C.S.*	
Bury, F. W., M.Sc. Manc. Lectr.		Tunstall, Bessie M., B A.	Lectr
King, F E, B Sc, Ph D Lond.	Lectr	<i>German Lang. and Lit.</i>	
<i>Classics</i>		Dunstan, A. C., Ph.D. König.,	Lectr.
Earp, F. R., M.A. Camb. Prof.		B.A.	
Mozley, J. H., M.A. Camb. Lectr.		<i>History, Modern</i>	
<i>Engineering, Civil and Mechanical, v. also Aero.</i>		Clarke, F., M.A. Ox.	Prof.
Lamb, E. H., D.S.C., M.Sc. Manc.,	Prof.	Chew, Helena M., M A., Ph D.	Lectr.
A.M.I.C.E.		Lond	
Higgins, A. L., M.Sc. Belf.,	Lectr. (Civil E.).	<i>Mathematics, Pure and Applied</i>	
A.M.I.C.E.		Le Beau, G. S., M.A. Ox.	*
Wedgwood, G. A., M.Sc. Belf.	Lectr. (Mech. E.).	The Principal	
Brendel, F. C. L., B.Sc. Lectr.		Reader in Geometry.	
2 Assts.			
<i>Engineering, Electrical</i>	[Prof.]		
MacGregor-Morris, J. T., M.I.E.E.			

\* Head of Department

Churchill, W. F. S., M.A. Ox.	Andrews, J. P., M.Sc.	Lectr.
Asst. Prof. (Applied M.).	Irons, E. J., B.Sc.	Lectr.
Cooper, F. T., B.Sc.		
Soal, S. G., M.A.	<i>Spanish</i>	
Green, S. L., M.Sc.	Barragán, J. V.	Lectr.
<i>Physics</i>	[Prof.	
Lees, C. H., D.Sc. Manc., F.R.S.	<i>Zoology</i>	
Ferguson, A., M.A. Wales, D.Sc.	Mudge, G. P., A R C.S.	
		Head of Dept.
Calthrop, J. E, M A. Camb, M.Sc.	Ommaney, F. D., B Sc., A.R.C.S.	
		Lectr.

## GENERAL INFORMATION

Address—Mile End Rd., E.1. Telephone—3384 East

Established 1892. Governed by a Council which includes the Master and Clerk of the Drapers' Co, and representatives of the L C C, the Univ, and the Staff. A School of the Univ. in Arts, Science, and Engin. Students proposing to take the Medical course at the London Hospital are offered special facilities for carrying on their studies for the Prelim. Med. Examn. Special Research LABORATORIES in Physics, Chem., Elec Engin. Degree courses in Arts, Science, Engin (including Aeronautical Engin), and Med Fee per session, £22. 10s. Hall of Residence for men students at South Woodford, and Hall of Residence for women at Whipps Cross, residence and board from 30s. a week *Calendar*, 1s post free. *College Magazine*, Old Students' Association.

## THE YEAR 1927-28

BENEFACTIONS. Several substantial gifts by anonymous donor.

NEW BUILDINGS. Two Halls of Residence for men students and for women students, with present accommodation for thirty in each.

STUDENTS Full-time, 402 graduates, 18; preparing for first degree, 317. Part-time and occasional, 104

DEGREES OBTAINED B A, 22; M A, 4, B Sc, 58, M Sc, 13, B.Sc. (Eng.), 6; M Sc. Eng., 2, D Sc., 2, Ph.D., 7.

# BIRKBECK COLLEGE

PATRONS—THE KING AND QUEEN.

PRESIDENT OF THE COLLEGE—.....

CHAIRMAN OF THE GOVERNORS—W. L. HICHENS.

PRINCIPAL—GEORGE SENTER, D.Sc., Ph D., F.I.C

SECRETARY—G. F. TROUP HORNE, B.A.

LIBRARIAN—M. C. HILDYARD, B.A , Ph D.

## PROFESSORS, LECTURERS, ETC.

### *Botany*

Gwynne-Vaughan, Dame Helen,  
D.B.E., LL D. Glas , D Sc ,  
F.L.S. Prof

Barnes, B. F , B Sc , Ph D , F L S

Lectr  
Duerden, H , B Sc. Lectr.

### Special Lectrs .

Wilmott, A. J , B.A Camb.

Bolas, B. D., M Sc.

### *Chemistry*

The Principal \*

Barrow, F., M Sc. Birm , Ph D.  
Stras. Assoc. \*

Sugden, S., D.Sc , A R C.S., A.I C.  
Reader

Myddleton, W. W , D.Sc. Belf.  
Lectr.

Thorneycroft, F. J., B.Sc. Birm.,  
M Sc. Lectr.

2 Demrs.

### *Classics and Ancient History*

Wright, F. A., M.A. Camb. Prof.\*

Sinclair, T. A., M.A. Camb.  
Reader.

Gould, H. E., B.A. Lectr.

### *Economics*

Schwartz, G L., B.A., B.Sc.  
(Econ.) Lectr.

### *English Lang. and Lit.*

Lobban, J. H., M A. Aberd.

Daunt, B Marjorie  
Lectr. (E. Lang ).

Potter, S M., B A. Ox. Lectr.

### *French Lang and Lit* [Prof.

Tanqueray, F. J , B ès Sc Rennes,  
D ès L. Paris, Off. de l'A. Fr.

Larg, D G , M A Aberd Reader

Gould, Marjorie, B.A. Lectr.

Aubry, Alice, L ès L.

Clermont-Ferrand Lectr.

### *Geography* [Prof.

Unstead, J. F , M.A. Camb., D.Sc.

Matthews, H A , B A Lectr

Savory, Gundred H., B A. Lectr.

Taylor, Eva G. R., B.Sc. Lectr.

### *Geology* [Reader.\*

Davies, G MacD., M.Sc., F G.S.

Spath, L. F., D.Sc., F.G.S. Lectr.

### *German*

Bithell, J., M.A. Manc. Reader.\*

McClean, R J , B.A , Ph D.

Konigsberg Lectr.

### *History* [Reader.\*

Jones, Arthur, M.A. Manc.

Penson, Lillian M , B.A., Ph.D.

Lectr.

### *Italian*

Crespi, A., D.Lett. Padua Lectr.

\* Head of Dept.

**Law**

Welford, A. W. Baker, M.A. \*  
Camb.

(Jurispr., Com. L., Merc.  
L., Conflict of Laws).

O'Malley, B. L. A., B.A. Camb.  
Lectr. (Roman L., Hist.  
of English L.).

Richardson, J. B., M.A., LL.B.  
Camb.

Lectr. (Equity, Eng. Law  
of Property, etc.).

Goitein, H., LL.D.

Lectr. (Const. and Crim.  
L.).

**Mathematics, Pure and Applied**

Smart, E. H., M.A. Camb. \*

Coates, C. V., M.A. Camb. Lectr.

Fox, C., M.A. Camb., D.Sc. Lectr.

Cooke, R. G., D.Sc. Lectr.

Ball, A. E., B.A. Camb. Lectr.

**Philosophy, Psychology, and Logic**

Keeling, S. V., B.A. Camb., M.A.,  
D. ès L. Montpellier

**Physics** [Prof.]

Griffiths, A., D.Sc. Manc., A.R.C.S.

Simons, L., D.Sc., F.Inst.P.

Reader.

Clack, B. W., D.Sc., Ph.D.,

F.Inst.P. Lectr.

Nettleton, H. R., D.Sc. Lectr.

**Zoology** [Reader \*

Jackson, H. G., D.Sc. Liv., F.Z.S.

Spaul, E. A., B.Sc., Ph.D., F.Z.S.

Lectr.

Russell, Lilian, B.Sc. Sheff., M.Sc.

Demr.

**Matriculation Department**

\*W Walker, M.A. Manc., B.Sc., H

E Weaver, B.Sc., Lectr., and

9 specialists from other depts

\* Head of Dept.

**GENERAL INFORMATION**

Address—Bream's Buildings, E.C.4 Telephone—2245 Holborn.

Founded 1823 by Dr. George Birkbeck "for the purpose of giving education to students in the principles of the arts they practise, and in the various branches of Science and useful knowledge." A School of the Univ. in Arts and Science for evening and part-time students for 5 yrs from Oct 1925. *Library*: 20,000 vols., including special Science Departments. Complete *courses* for degrees in Arts and Science and also in Laws, and for the Academic Diploma in Geog. and for the Inst. of Chem. examns., and matricn. courses. *Fees*, including subs. to Students' Union: Arts and Laws, £10; Science, £12. Post-grad. work, 3 gs to 5 gs. *Playing Fields* (18 acres) at Greenford. *Publications*: *Calendar*, 1s.; *Annual Report*, *Lodestone* 6d. (Students, terminally).

**THE YEAR 1927-28**

**BENEFACTIONS.** The Friends of Birkbeck Society has provided funds for the foundation of a prize of £30 for post-graduation research in Geology. Prizes in Botany and in English have been instituted in memory of William Charles Frank Newton, a former student of the College, by Mrs. Newton and friends.

**BUILDINGS.** The Senate has decided that in the plans for the development of the Bloomsbury site provision shall be made for the needs of Birkbeck College. The new Sports Pavilion at Greenford, which cost about £9000, was opened in May by Lord Balfour of Burleigh.

**STUDENTS.** Part-time. total, 1162, including 266 graduates.

**DEGREES OBTAINED.** B.A., 32, M.A., 2, Ph.D., 2, B.Sc., 38; M.Sc., 5; Ph.D., 5; D.Sc., 1; LL.B., 4

# LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

CHAIRMAN OF COURT OF GOVERNORS—Rt Hon. Sir ARTHUR STEEL-  
MAITLAND, Bart, LL D, M.P.

VICE-CHAIRMAN—Hon. Sir JOHN COCKBURN, K.C.M G., M.D.

DIRECTOR—Sir WM. H. BEVERIDGE, K C.B., M.A., B C L (Ox.), LL D.

SECRETARY—Mrs. MAIR, M.A. LIBRARIAN—B M HEADICAR.

## PROFESSORS, LECTURERS, ETC.

- |   |  |
|---|--|
| <p><i>Accountancy and Business Methods</i>, v. also Com.<br/>de Paula, F. R. M., O B.E, F.C.A.<br/>Cassel Prof<br/>Hughes, C J. G., LL B, F C.A.<br/>Reader.<br/>Rowland, S. W., F C A<br/>(S) (Railway Accounting)<br/>D'Eath, D C, F C.I S.<br/>(S) (<i>Secretarial Practice</i>).<br/><br/><i>Anthropology, Social</i>, v. also<br/>Ethnology<br/>Malinowski, B., Ph.D Cracow,<br/>D Sc. Prof.<br/>Aitken, Barbara, M A Ox (S)<br/><br/><i>Banking and Currency</i>, v. also<br/>Commerce<br/>Gregory, T. E., D.Sc. (Econ.)<br/>Cassel Prof<br/><br/><i>Commerce and Industry</i>, v also<br/>Law, Logic, Transport<br/>Sargent, A. J., M.A. Ox. Prof.<br/>Forrester, R. B, M.A. Edin.,<br/>M.Com. Manc. Reader.<br/>Rowe, J. W. F., M.A. Camb.,<br/>M.Sc. (Econ) Lectr.<br/>Marshall, T. H., M A. Camb.<br/>(Lectr. in History also) Lectr.<br/>Whale, P. B., B.Sc. (Econ.),<br/>M. Com. Lectr.<br/>1 Asst.</p> | <p><i>Economics</i>, v. also Indian E.<br/>and Russia<br/>Young, Allyn A, Ph D. Harvard<br/>Prof.<br/>The Director (Descriptive E. and<br/>Public Admn) Lectr.<br/>Dalton, Hugh, M P., M.A. Camb.,<br/>D Sc (Econ) Reader.<br/>Robbins, L., B Sc (Econ)<br/>Lectr. (S).<br/>Haensel, Paul, Dr Jur, Dr Ec<br/>Pub Munich (S).<br/>2 Assts.<br/><i>English</i><br/>Reed, A. W., M A., D.Lit<br/>Prof. (and at King's Coll.).<br/>2 Assts.<br/><i>Ethnology</i>, v. also Anthropology<br/>Selgman, C. G., M.D, F.R.C.P.,<br/>F.R.S. Prof.<br/>Joyce, T. A., O.B.E., M.A. Ox.<br/>(S).<br/>Schapera, I., M.A. Cape Town (S).<br/><i>Finance</i>, v. Politics<br/><i>French</i>, v. Modern Languages<br/><i>French History and Institutions</i><br/>Vaucher, P., D. ès L. Paris Prof.<br/><i>Geography</i>, v. also Commerce<br/>Jones, L. Rodwell, B.Sc., Ph.D.<br/>Prof.<br/>Stamp, L. D., B A., D.Sc.<br/>Reader (Economic Geog.).</p> |
|---|--|

(S) = Special Lectr., not on the School Staff.

Ormsby, Hilda, B.Sc. (Econ.)

Lectr.

Robinson, L. G., M.A. Ox

Lectr. (Historical Geog.)

3 Assts.

*German*, v. Modern Languages

*History, Economic*, v. also  
Politics

Hall, Hubert, Litt D Camb (S)

Tawney, R. H., B.A. Ox. Reader.

Power, Eileen E., M A , D Lit.

Reader

Beales, H. L , M A. Manc Lectr.

2 Assts.

*Indian Economics*

Slater, Gilbert, M.A. Camb., D.Sc.

(Econ.) (S).

*International History*

Toynbee, A J , B.A Ox.

Stevenson Prof.

*International Relations*

Baker, P. J. Noel, M A. Camb.

Cassel Prof

Bertram, Sir Anton, M A (S)

2 Assts.

*Law*, v. p. 172

Jenks, Edward, M A , D C L

Prof (English L )

Gutteridge, H C , M A , LL M

Camb , LL D Lond

Cassel Prof

Smith, H A , M A Ox

Prof (International L )

Parry, D Hughes, B.A., LL M.

Camb. and Wales, Barr-at-

Law Reader (English L.).

Allemès, F., B. ès L., L ès L.

Avocat, (S) (Code Civil).

Ball, W. V., O.B.E., M.A. Camb.,

Barr-at-Law (S) (Railway L.).

Slessor, Sir Henry, K C.

(Industrial L ) (S)

3 Assts.

*Logic, Psychology, and Philo-*  
*sophy*

Wolf, A., M.A. Camb., D.Lit.

Prof. (Logic and Scientific  
Method).

1 Asst.

Lectrs. on Industrial Psycho-  
logy :

Burt, Prof. Cyril, D.Sc. (S).

Farmer, Eric, M.A. (S).

Miles, G. H , D Sc. (S).

Myers, C. S., C.B.E., M.A., M.D.,

Sc D. Camb., F.R.S. (S).

Smith, May, M A. (S).

*Modern Languages \**

Earle, Edith, M.A.

Lectr (French).

Haltenhoff, A. G.

Lectr (German).

McKechmie, E. M. M , M A ,

L. ès L. Lectr. (French).

Wallas, May, Ph D Lond

(Italian)

*Politics and Public Administra-*  
*tion*

Laski, H. J., M A Ox. Prof.

Lees-Smith, H. B , M P , M A Ox ,

D Sc (Econ )

Reader (Pub Admn )

Finer, H., D Sc. (Econ )

Lectr. (Pub Admn ).

Wallas, Graham, M A Ox , Litt.D.

Manc , Emeritus Prof , Univ

London

Lectr (Pol. Science) (S)

2 Assts.

*Russian Institutions and Eco-*  
*nomics*

Meyendorff, A. Reader.

*Shipping*, v. Transport

*Social Science and Administra-*  
*tion*

Lloyd, C. M., M A. Ox , Barr.-at-

Law

Head of Dept.

(S) = Special Lectr., not on the School Staff.

\* Preparatory for B.Sc. (Econ.), Final, or for B.Sc. (Econ.) Intermediate :  
language courses for B.Corn. are provided chiefly at King's and Univ. Colls.



Cullis, Prof. Winifred C., D.Sc. (Physiology) (S).	<i>Statistics</i> [Prof.
Hart, Bernard, M D , F R C P (Psychiatry) (S)	Bowley, A. L., Sc.D. Camb., F.B.A.
Davison, R. C., M.A. Ox. (S).	Rhodes, E. C , B.A. Camb., D.Sc. Reader.
4 Assts.	2 Assts.
<i>Sociology</i> , v. also Anthropology	<i>Transport</i> , v. also Acctcy. and Law
Hobhouse, L. T., M.A Ox., D.Lit. Durh., LL.D. St And.	Stephenson, W. Tetley, M.A. Camb. Cassel Reader.
Martin-White Prof.	Burt, P. (S).
Westermarck, E. A., Ph.D. Hel- sing , LL D. Aberd.	Shanahan, E W , D Sc (Econ ) (S).
Martin-White Prof.	Jones, Clement, C B., M.A. (Sea Transport) (S)
Ginsberg, Morris, M.A , D.Lit. Reader.	1 Asst.

(S) = Special Lectr., not on the School Staff.

## GENERAL INFORMATION

Address—Houghton St , Aldwych, W.C 2.

Telegrams—"Poleconics, Estrand." Telephone 5671 Holborn.

Founded 1895. A School of the Univ recognized in the Faculties of Economics and Political Science (including Commerce and Industry), of Laws, and of Arts (in History, Geography, Sociology, and Anthropology).

Matriculated students are registered as Internal students of the Univ. with a view to the B Sc. Econ , B Com , LL B , and B A (with Honours in Geog , Sociology, Anthropol., or History, or the Pass degree with Geog.), or to Higher degrees. Non-matriculated students can be registered for the Academic Diplomas in Geography, Psychology, Public Administration, Journalism, and Sociology and Social Administration, and for the School Certificates in Social Science and in International and Diplomatic Studies

The lectures and classes at the School are open also to those who have not matriculated and do not wish to pursue a full University course—in particular to those engaged in banking, accounting, railway and other transport, commerce and industry, to civil servants and municipal officials, to teachers, and to those engaged in or qualifying for social work. To all these the School affords, by day or evening, the opportunity of specialized or advanced study on particular topics. The School is open on the same terms to men and to women, and classes and lectures are given both in the day and in the evening.

The School offers special facilities for post-graduate research, under the supervision of professors or otherwise. The *British Library of Political and Economic Science*, which includes the British Library of *Political Science*, the Edward Fry Library of *International Law*, and the Schuster Library of *Comparative Legislation*, also contains a number of special collections, such as the Acworth collection on Transport, the Hutchinson collection of works in all languages for and against Socialism, and other collections on Trade Unionism, Local Government, and Public Administration. The Library is open not only to those who are taking courses at the School, but, by permission of the Director, to any person desiring to utilize it for research or consultation. The Ratan Tata Foundation for research into social conditions is administered by

the School, which maintains in connexion with it a Dept. of Social Science and Administration.

The fee for a complete day course in Economics or Commerce, spread over 3 or 4 years, is 78 guineas, in Law the day fee is 26 guineas a year, and in Arts about £35 a year. In the case of evening students considerable reductions in these fees are made. The fees include privileges of Students' Common Rooms and Athletic Societies. Playing fields at Malden are available for members of the Students' Union.

Research Studentships, £200, in addition to fees, are offered from time to time. Scholarships are awarded on the results of the University Intermediate Exams. There are entrance scholarships, bursaries, and valuable prizes.

Publications : *Studies in Econ. and Pol. Sc.* ; *Economica*, thrice annually, 2s. 6d. ; *Bulletin of the British Library of Political and Economic Science*, quarterly, 2s. per annum ; *Clare Market Review* (Students, once a term). *Bulletin*—with supplements—of the *London and Cambridge Economic Service* of Statistics and Memoranda, bearing on the current economic position, is maintained by the School, in co-operation with the Univ. of Cambridge and Harvard Univ. Subs. £6 p. a. *School Calendar*, 2s. 6d. or (cloth) 3s. 6d. *Summary programmes* free.

## THE YEAR 1927-28

**BENEFACTIONS** Gift of £3000 by Sir William and Sir Gomer Berry towards the purchase of the St Clements Press building ; £1000 (anonymous) for new pavilion at Malden ; £10,000 from the University Grants Committee, with special reference to Library extension, and a grant of £5000 from the London County Council for equipment of the new buildings. The Rockefeller Memorial Trustees have also renewed for 1928-29 their grant of £20,000 for furthering the research of members of staff of the School. Funds raised for a Prof. Lilian Knowles scholarship.

**NEW BUILDINGS** The two additional storeys upon the roof of the 1920 block and the wing along Houghton Street were opened in June 1928 in the presence of H.R.H. the Prince of Wales. The St Clements Press building and the house adjacent to it have been purchased by the School from the Press.

**NEW POSTS** A full-time Chair of International Law, assistants appointed in Anthropology, Economics, and Statistics.

**RESIGNATIONS.** Rt Hon. Sidney Webb resigned title of Professor of Public Administration ; Mrs. E. M. Burns (Economics), on appointment to Columbia University ; J. S. Fulton, on appointment to a Fellowship and Tutorship in Philosophy at Balliol College, Oxford.

**STUDENTS.** Total regular students, 1014, including 159 graduates ; occasional, 1358 ; intercollegiate, 431.

**DEGREES OBTAINED.** B.A. (Internal), 1 ; B.Sc. (Econ.) (Internal), 57, (External), 5 ; B.Com. (Internal), 46, (External), 12 ; LL.B. (Internal), 5, (External), 1 ; M.A., 2 ; M.Sc. (Econ.), 6 ; LL.M., 1 ; Ph.D., 18 ; D.Sc. (Econ.), 1 ; LL.D., 2.

# SOUTH-EASTERN AGRICULTURAL COLLEGE, WYE, KENT

CHAIRMAN OF GOVERNING BODY—CLIFFORD B EDGAR, D.L., B.Mus., B.Sc.

PRINCIPAL—R. M. WILSON, B.Sc. (Agric.).

SECRETARY AND BURSAR—A. C. LESTER, B.Com., A.C.I.S.

## TEACHING AND RESEARCH AND ADVISORY STAFF

### *Agriculture*

The Principal.

Vickers, V. R. S., M.R.A.C.

Kersey, H. W.

Fishwick, V. C., P.A.S.I., N.D.A., N.D.D.

Bescoby, H. B., P.A.S.I., N.D.A.

### *Agr. Engineering*

Davies, C., T.D.A.

### *Agr. Law, Forestry, Book-keeping, Cost Accounting, Surveying, and Building Constn.*

Haines, A. H., P.A.S.I.

Glossop, W. G. V.

### *Agr. Zoology*

Duffield, C. A. W.

### *Botany*

Parkinson, S. T., B.Sc.

Pearl, R. T., B.Sc., A.R.C.Sc., D.I.C.

Harrison, R. M., A.R.C.S., B.Sc.

### *Chemistry*

Harwood, S. D. F., M.A., F.I.C.

Burgess, A. H., B.Sc. (Agric.).

Cole, L. W., B.Sc. (Agr.)

Strutt, C. W., B.Sc. (Agr.)

Goodwin, W., M.Sc., Ph.D.

### *Economics*

Wyllie, J., B.Sc. (Agric.), N.D.A., N.D.D.

### *Entomology*

Theobald, F. V., M.A. Camb.

### *Fruit-growing and Market Gardening*

Miskin, W.

Bird, A. H., M.A. Ox.

### *Geology and Zoology*

Brade-Birks, S. G., D.Sc.

### *Ironwork, Farriery, and Woodwork*

Wardley, W., M.E.A.F.C.

Martin, A. G.

Head, R. K.

### *Mycology*

Prof. Salmon, E. S., F.L.S.

Ware, W. M., M.Sc.

### *Poultry*

Rhodes, F. W., D.S.O.

Fermor, C. E.

### *Veterinary Science and Bacteriology*

Cave, T. W., F.R.C.V.S.

Barkworth, H., M.C.

## GENERAL INFORMATION

Founded 1894. A School of the Univ. in Science (Agric.).

LIBRARY, 4000 vols. LABORATORIES: Chem. Research, Biol., Bact., Entom., Vet. Farm, 500 acres. Forestry demonstration plantation.

The College provides courses of instruction in Agriculture (British and Colonial) and Horticulture (Commercial Fruit Growing and Market Gardening). The courses prepare for the following examinations: B.Sc. (Agric.), B.Sc. (Hort.), Dip. Agric. (Wye), Dip. Hort. (Wye), N.D.A., P.A.S.I., and are designed to meet the requirements of men who wish to secure posts as research workers and lecturers in agriculture, agricultural organizers and administrators,

managers of estates and land, or who intend to take up farming at home or abroad. The College endeavours to give all possible assistance in placing its students in suitable posts. FEES, inclusive for board, lodging, and tuition: British subjects, £150 p.a.; others, £180 p.a. Tuition only—British subjects, £85; others, £115 p.a. Reduced fees for ratepayers of Kent, Surrey, and W. Sussex. PUBLICATIONS: *Journal*, *Prospectus*. Number of Students (1927-28): full-time, 170; degrees obtained: B.Sc. (Agric.), 12.

## LONDON DAY TRAINING COLLEGE

CHAIRMAN OF COUNCIL—SIR WILLIAM BEVERIDGE, K C B, M A, B C L.

### STAFF

Nunn, T. Percy, M.A., D.Sc.	Gurrey, P., B.A., Ph.D. Lond.
Principal and Prof. of	Fairgrieve, J., M.A. Ox., B.A.
Education	von Wyss, Clotilde, F.L.S.
Punnett, Margaret, B.A.	Calthrop, Miss M. G., Mod. Lang.
Vice-Principal.	Tripos
Burt, Cyril L., M.A. Ox., D.Sc. Ox.	4 Instrs. in Art and Handwork,
Prof. of Educn.	1 in Music, 1 in Voice Produc-
Lecturers and Tutors:	tion, 2 in Physical Training.
Bell, J. J., M.A. Ox. and Liv.	10 Supervisors of School
Browne, C. E., B.Sc. Lond	Practice.

### GENERAL INFORMATION

Address—Southampton Row, W C 1.

Founded 1902. The Chancellor and Vice-Chancellor of the Univ. and Chairmen of the L.C.C. and London Educn. Committee are *ex-officio* members of the College Council. A School of the Univ. in Pedagogy.

Schools under the L C C. and others are used for practical instruction, and 3 Demonstration Schools are attached to the College

Students are trained under the Regulations for the Training of Teachers (H.M. Stationery Office, Kingsway, W.C 2) for Elem. and Secondary Schools. Undergraduates can take a 4 yrs.' course so as to combine B.A., B.Sc., or B.Sc.Econ. courses (taken at other Colls.) with Professional training. One who has already graduated may devote himself continuously for a year to Theory, etc., of Educn. and obtain the Univ. diploma. Courses for the M.A. and Ph.D. Degrees in Educn. are also provided. Fees: London students—*nil*; others—for a year spent entirely at the Training College for a professional course, £40. PUBLICATION: *Prospectus* (Sept.)

### THE YEAR 1927-28

Number of full-time students, 602, including 186 graduates. Part-time students: 26 graduates.

DEGREES OBTAINED. B.A., 115; B.Sc., 65; M.A., 1; Teacher's Diploma, 174.

# SCHOOL OF ORIENTAL STUDIES

PATRON—H.M. THE KING.

VISITOR—THE PRESIDENT OF THE BOARD OF EDUCATION.

CHAIRMAN—SIR HARRY L. STEPHEN, LL.M

DIRECTOR—PROFESSOR SIR E. DENISON ROSS, C.I.E., Ph.D.

DEAN—C. O. BLAGDEN, M.A., D.Litt.

SECRETARY—MISS C. L. CLEGG.

## PROFESSORS, LECTURERS, ETC.

<i>Albanian</i>	[Lectr.*	Edwards, E Dora, M A.
Jopson, N. B., B A. Camb.		Lectr. (Mandarin)
<i>Amharic and Ethiopic</i>		Shu, C. C. Lectr. (Mandarin).
Athill, Major L. F. I		Steele, J., M.A., D.Lit.
	Lectr.* (Amh.).	Lectr.* (Amoy & Swatow).
Weld, H., B Litt Ox	Lectr.*	Waley, A., B A
Harden, Rev. J. M., M.A., D.D., LL D.	Lectr.* (Eth.).	Lectr.* (C. Poetry).
Hirschfeld, H., Ph D Strass.		<i>Gujarati</i>
Rey, C. F	Lectr.* (Amh.)	Doderet, W., M A Camb, I.C.S. (retd.)
		Lectr.
<i>Arabic</i>		<i>Hausa</i>
Arnold, Sir Thos W, C I E, M A		Tomlinson, G J F, C B E, M A
Camb, Litt D, Ph.D, F B A		Lectr
Prof. (Classical A.).		Vischer, H
Iles, G. E, O.B.E., M.A. Camb. (Sudanese)	Lectr.	<i>Hebrew, Modern</i>
Kader, Sheikh H. Abd el		Wartski, I, B A.
	Lectr. (Egyptian A.).	Lectr.
Gibb, H. A. R., M A. Lond. and Edin.	Lectr. (Classical A.).	<i>Hindustani</i>
Fulton, A. S., M.A.	Lectr.* (Classical A.).	Bailey, T. G, M A, B.D, D.Litt Edin.
Dojaily, Sheikh Kadhim (Mesopotamian A.)	Lectr.	Leeson, G. E.
		Lectr. (Urdu & Hindi).
<i>Armenian</i>		Palmer, T. G. F.
Topahan, S.	Lectr.	Lectr.
<i>Assamese and Khasi</i>	[Lectr.*	<i>History and Culture of British Dominions in Asia, especially India, v. also Sansk.</i>
Gurdon, Lt.-Col. P. R. T., C.S.I.		Dodwell, H. H., M A. Ox.
		Prof.
<i>Bengali</i>		<i>History of the Near East</i>
Page, W. S., O.B.E., B.A., B.D. St. And	Reader.	Toynbee, A. J., B.A.
		Lectr.*
<i>Burmese</i>		<i>Japanese</i>
Hertz, W. A., C.S.I.	Lectr.	Isemonger, Commdr. N. E., R.N. (retd.)
		Lectr.
<i>Chinese</i>		Yoshitake, S.
Bruce, J. P., M.A., D.Lit.	Prof.	Lectr.*
		Mere, G.
		Lectr.*
		Parlett, Sir H, C M G.
		Lectr.*
		<i>Law, Indian</i>
		[Lectr.
		Sabonadière, A, I.C.S. (retd.)

\* On panel of additional lectrs., not on regular staff.

<i>Law, Indian Administrative</i>		<i>Sanskrit</i>	[Prof.]
Way, T. A. H.	Lectr.*	Turner, R. L., M.C., M.A. Camb.	
<i>Law, Ottoman</i>		Barnett, L. D., M.A. Camb.,	
Ostrorog, Count Léon, LL.D.		Litt.D. Vict.	
Paris	Hon. Lectr.	Lectr. (S. & Anc. Indian History).	
<i>Malay</i>		Stede, W., Ph D Leip	Lectr
Blagden, C. O., M.A. Ox., D.Litt.		Rylands, C. A., B A. Camb.	
Rangoon	Reader.		Lectr.*
<i>Malayalam</i>		Kanhere, S. G.	Lectr.
Wickremasinghe, M. de Z., M.A.		Allan, J., M A. Edin.	
Ox.	Lectr.	Lectr.* (Oriental Palæog.).	
<i>Marathi</i>		<i>Shan</i>	
Kanhere, S. G.	Lectr.	Inman, Capt. H. J.	Lectr.*
<i>Pali</i>	[Lectr.]	<i>Siamcse</i>	[Lectr.*]
Davids, Mrs C. A. R., M.A., D Lit.		Wales, H G Q, M A Camb	
Stede, W., Ph.D. Leip.	Lectr.	<i>Sinhalese</i>	
<i>Persian</i>		Wickremasinghe, M. de Z., M.A.	
Ross, Sir E Denison, C I.E., Ph D		Ox	Lectr.
Strass	Prof.	<i>Swahili and Rantu Languages</i>	
Dārāb, G. H., Khan	Lectr.	Werner, Alice, D Lit, L.L A	
Hag, Sir Wolseley, K C I E,		St And	
C.S.I., C M.G., C.B.E., M A.		Werner, Mary	Lectr.
Dublin	Lectr.	<i>Tamil and Telugu</i>	
Phillott, Lt -Col D. C., M.A.		Wickremasinghe, M. de Z., M.A.	
Camb.	Lectr.*	Ox.	Reader.
<i>Phonetics</i>		<i>Tibetan</i>	[Lectr.*]
Lloyd-James, A., M A. Camb.,		Shuttleworth, H. Lee, M A. Ox.	
B.A. Wales	Lectr.	<i>Turkish</i>	
<i>Polynesian, Melanesian, Micro-</i>		Ali Riza Bey	Lectr.
<i>nesian, and Papuan</i>		Topalian, S.	Lectr.
Ray, S. H., M A. Camb.	Lectr.*	<i>Urdu, v. Hindustani</i>	

\* On panel of additional lectrs., not on regular staff.

## GENERAL INFORMATION

Address—Finsbury Circus, E C 2.

Established by Royal Charter, 1916. A School of the Univ. in Arts. *Library*, 62,500 vols. *Fees*: 3½ to 20 gs. per session; I.C.S. probationers, 40 gs. *Scholarship* (Gilchrist) of £50 in Chinese. Teaching provided in more than 50 languages and in the history, religions, and customs of Oriental and African countries. Special facilities for research work. *PUBLICATIONS*. *Calendar* (July), 1s. 6d.; *Prospectus* (July), *Bulletin*, 6s. per part.

## THE YEAR 1927-28

**STUDENTS.** Full-time, 33 graduates; part-time, 571.

**DEGREES OBTAINED.** B.A., 1; M.A., 2; Ph.D., 3; D.Lit., 1.

# BEDFORD COLLEGE FOR WOMEN

VISITOR—.....

CHAIRMAN OF COUNCIL—SIR WILMOT HERRINGHAM, K.C.M.G., C.B.,  
M.D., F.R.C.P.

PRINCIPAL—MISS M. J. TUKE, M.A. Camb, M.A. Dub.

RESIDENT TUTOR—MISS L. C. KEMPSON, M.A. Dub.

SECRETARY—MISS O. E. MONKHOUSE, M.B.E., B.A.

REGISTRAR—MISS E. M. E. HAYDON, M.A.

LIBRARIAN—MISS J. A. PATERSON.

## PROFESSORS, LECTURERS, ETC.

*Botany* [Prof.  
Jones, W. Neilson, M.A. Camb.  
Halket, Miss A. C., B.Sc. Lectr.  
Garside, S., M.Sc. Manc. Lectr.

*Chemistry, Inorganic and Physical*  
Spencer, J. F., Ph.D. Bres., D.Sc.  
Liv., F.I.C Prof. (Chem).  
Hedges, E. S., D.Sc., Ph D. Manc.  
Jr. Lectr.

2 Demrs.

*Chemistry, Organic*  
Turner, E. E., M.A. Camb, D.Sc.  
Lond Reader  
2 Demrs.

*Classics* [Prof (Greek)  
MacGregor, J. M., M.A. Ox.  
Tarrant, Miss D., M.A. Lectr.  
Williamson, Harold, M.A. Ox.  
Prof. (Latin).  
Furness, Miss S. M. M. Lectr.  
Andrewes, Miss M., M.A. Lond.  
Jr. Lectr.  
1 Asst. (part-time).

*Dutch*  
Geyl, P., Litt.D. Leyden Prof.  
Haantjes, J., Lit. Docts. Reader

*Economics, v. Social Studies*

*English Language and Mediæval  
Lit.*  
Thomas, P. G., M.A. Camb.,  
Litt.D. Liv. Prof.  
1 Asst. (part-time).

*English Literature*  
..... Prof.  
Routh, H. V., M.A. Camb. Reader.  
Covernton, Miss A. B. Lectr.  
Ellis-Fermor, Miss U. M., M.A.,  
B.Litt. Ox. Lectr.  
1 Asst. (part-time).

*French Language and Mediæval  
Lit.* [Sr. Lectr.  
Johnson, Miss F. C., M.A.  
Terry, Mrs., M.A. Lectr.

*French Literature*  
Eccles, F. Y., M.A. Ox. Prof.  
The Principal Lectr.  
Legros, René P., M.A. Edin. and  
Ox. Lectr.

*Geography*  
Hosgood, Miss B., B.A. Reader.  
Daysh, G. H. J., B.Litt. Ox. Lectr.  
Mitchell, Miss J. B., B.A. Camb.  
Jr. Lectr.

2 visiting Lectrs.

*Geology* [Reader.  
Hawkes, L., D.Sc. Durh., F.G.S.  
Gardner, Miss E. W., M.A. Camb.  
Lectr.

1 Demr. part-time.

*German*  
Robertson, J. G., M.A. Glas., Ph.D.  
Leip, Hon. Litt.D. Manc. and  
Dub. Prof.

Massey, Miss I. M., Ph.D. Marb.  
Reader.  
Haltenhoff, A. G. Lectr.

*History, Ancient* [Reader  
Cary, M., M.A., D.Litt. Ox.

*History, Modern*  
Mackie, J. D., M.A. Ox. Prof.  
Haward, Miss W. I., M.A. Camb.  
Lectr.  
Tooley, Miss M. J., M.A. Lectr.  
1 Asst.

*Italian*  
Dobelli, S'rina E. B. Sr. Lectr.  
Jeffery, Miss V. M., M.A., D.Lit.  
Lectr.

*Mathematics* [Prof.  
Hilton, Harold, M.A., D.Sc. Ox.  
Marshall, J., M.A., D.Sc. St. And.  
Reader.  
Fowler, Mrs., M.A.  
Lectr. (part-time).  
Jervis, Miss S. D., M.Sc. Jr Lectr

*Philosophy*  
Edgell, Miss B., D.Litt. Wales,  
Ph.D. Würz. Prof (Psych.).  
Stebbing, Miss L. S., M.A. Reader.  
Hazlitt, Miss V. H., D.Lit. Lectr.

*Physics*  
Wilson, W., Ph.D. Leip., D.Sc.,  
F.R.S. Prof.  
Saltmarsh, Miss M. O., B.A. Dub.,  
Ph.D. Reader.  
2 Demrs.

*Physiology*  
Edkins, J. S., M.A., M.B., D.Sc.  
Camb. Prof.  
Edkins, Mrs., M.Sc. Lectr.  
Murray, Miss M. M. A., M.Sc.  
Lectr. (Biol. Chem.).

*Social Studies and Economics*  
Reid, Mrs., M.A. Camb. Director.  
Williams, Mrs., B.A. Manc.  
Lectr. (Econ.)

7 Visiting Lecturers

*Zoology*  
Boulenger, C. L., M.A. Camb.,  
D.Sc. Birm. Prof.  
Hett, Miss M. L., B.Sc. Lectr.  
1 Demr.

## GENERAL INFORMATION

Address—Inner Circle, Regent's Park, N.W. 1.  
Telephone—Langham 1420.

Founded 1849. A School of the Univ. in Arts and Science. Tate Library and Wernher Reading-Room contain 33,925 volumes. Special facilities for Research work in the LABORATORIES (Bact., Bot., Chem., Geol., Physics, Physiol., Psych., and Zool.).

Minimum age for admission, 17. Students are prepared for all examns. of the Univ. of London in Arts and Science. In Medicine the College is recognized by the Univ. for purposes of the First M.B., and in Chem. and Physiol. for the Second M.B. Examn.

RESIDENTIAL accommodation for 94 students in the Coll. and 150 at the College Houses. FEES (Inclusive Sessional), for tuition: Interm. Arts—42 gs.; B.A.—31 to 38 gs.; M.A.—8½ to 15 gs.; Interm. Science and B.Sc. Pass—53 gs.; B.Sc. Hons.—38 to 53 gs.; M.Sc. and Ph.D.—15 to 21 gs. Residence with board—76 to 100 gs. Union Society—15s.; Athletic Union—25s.

SCHOLARSHIPS for graduates: One (Lady Huggins) in Sociology, awarded from time to time; one (Amy Lady Tate) for research in Arts or Science,



£125 p.a. for 2 yrs.; "F.M.W." Medical, £50; Gilchrist Training, £30 for 1 yr.; Notcutt Travelling Studentship, £200 for session 1928-29

PUBLICATIONS: *Calendar*, post free, 3s. 6d.; B.C. Magazine (Students).

## THE YEAR 1927-28

One new chair was instituted · Greek; one new Readership: Physics.

RETIREMENTS AND RESIGNATIONS Miss K FitzGerald; Miss J. Butterworth; Miss J. Stewart; Miss J. M. S. Tompkins; Miss C. H. Wedgwood, to be Lecturer in Anthropology, Sydney, Miss H. Highley; Miss F. A. E. Mallam; Miss H. I. McMorran. LEAVE OF ABSENCE · Miss K. FitzGerald, to lecture in America; Mrs. Fowler; Miss E. W. Gardner, to complete research work in the Fayum, Prof. Spurgeon for purposes of research.

STUDENTS. Full-time, 595, including 25 graduates. Part-time, 36, including 16 graduates.

DEGREES OBTAINED. B.A., 91, M A, 4, Ph D, 2, D Lit, 1, B.Sc., 50; M Sc, 4; Ph D, 2; D Sc., 3

# ROYAL HOLLOWAY COLLEGE FOR WOMEN

CHAIRMAN OF THE GOVERNORS—The Right Hon. BARON ASKWITH,  
K.C.B., D.C.L.

PRINCIPAL—Miss E. C. HIGGINS, B.A.

SECRETARY TO THE GOVERNORS—Miss U. R. DOLLING.

PRINCIPAL'S ASSISTANT AND LIBRARIAN—Miss E. E. LOOKER, B.A.

## PROFESSORS, LECTURERS, ETC.

*Botany* [Sr. Lectr.  
Blackwell, Miss E. M., M.Sc. Liv.  
Chattaway, Miss M. M., M.A., B.Sc.  
Ox. Asst. Lectr. & Demr.

*Chemistry*  
Moore, T. S., M.A. Ox. Prof.  
Boyle, Miss M., D.Sc.  
Lectr. & Demr.  
Wilson-Smith, Miss M. J., B.Sc.  
Demr. & Asst. Lectr.

*Classics*  
Sleeman, J. H., M.A. Prof.  
Taylor, Miss M. E. J., M.A. Dub.  
Sr. Lectr.  
Woodward, Miss A., M.A.  
Asst. Lectr.

*English* [Sr. Lectr.  
Willcock, Miss G. D., M.A.  
Green, Miss H. A., M.A. Lectr.  
Walker, Miss A., Ph.D.  
Asst. Lectr.

*French* [Sr. Lectr.  
Honey, Miss M. E. D., M.A.  
McWilliam, Miss N., M.A. Edin.  
Lectr.  
West, Miss C. B., B.A., M.Litt.  
Camb. Lectr.  
Gazier, Mlle. M. (Conversation)  
Assistante.

*German*  
Delp, Miss W. E., Doct. de l'Univ.  
Paris Sr. Lectr.  
Richey, Miss M. F., M.A., D.Lit.  
Asst. Lectr.

*History* [Prof.  
Johnstone, Miss Hilda, M.A. Manc.  
Powell, Miss I. G., M.A. Lectr.  
James, Miss M., M.A. Camb., Ph.D.  
Asst. Lectr.

*Mathematics* [Prof.  
Baker, B. B., D.Sc. Edin., M.A.  
Rowell, Miss E. M. Sr. Lectr.  
Pick, Miss M., M.A. Lectr.  
The Principal.

*Physics*  
Horton, F., Sc.D. Camb., M.Sc.  
Birm., D.Sc., F.R.S. Prof.  
Davies, Miss A. C., D.Sc.  
Lectr. & Demr.  
Bate, Miss P. H., B.Sc.  
Asst. Demr.

### Art

*Drawing and Painting*  
Carey, C. W. Teacher.

*Music* [Lectr. & Director.  
Barker, Miss S. M.  
3 Visiting Teachers.

## GENERAL INFORMATION

Address—Englefield Green, Surrey. Telephone—114 Egham.

Opened in 1886. 19 miles from London. A School of the Univ. in Arts and Science. LIBRARY, 19,000 vols. LABORATORIES: Bot., Chem., Physics: Botanic Gardens. Area of grounds, 95 acres. Residential accommodation for over 200 students and staff. Courses for Bachelorship and Higher degrees in Arts and Science. Inclusive FEES: £144 a yr. Entrance Scholarships, £80, etc.; post-graduation studentships. PUBLICATIONS: *Calendar*, 2s. post free, R.H.C. *Letter* (Old Students' Association).

## THE YEAR 1927-28

STUDENTS. Full-time. total, 200, including 11 graduates.

DEGREES OBTAINED. B.A., 35; B.Sc., 21; Ph.D., 1; M.A., 1; M.Sc., 3.

# WESTFIELD COLLEGE, HAMPSTEAD

CHAIRMAN OF COUNCIL—The Rt. Hon. Sir THOMAS INSKIP, C.B.E., K.C., M.P.

PRINCIPAL—Miss E. C. LODGE, M.A., D Litt Ox., F.R.Hist.S.

## LECTURERS

<i>Botany</i>	[Reader.	Lea, Miss K. M., M A. Ox.
Delf, Miss E. M., D.Sc., F.L.S.		
Fry, Miss E. J., M.Sc. Wales	<i>French</i>	
Westbrook, Miss M A, M Sc	Turquet, Mme., M.A., D.Lit.	
		Reader.
<i>Chemistry</i>	[Part-time Lectr	Crosland, Mrs., M.A. (part-time).
McKie, Miss P V.		
<i>Classics</i>		<i>History</i>
Parker, Miss C. E., M A. Ox.		Skeel, Caroline A J., M A. Camb ,
Dale, Miss A. M., M A. Ox.		D.Lit, F R.Hist.S. Prof.
Botting, C. G., M.A. Camb. (part-time).		Martin, Miss E. C, M A., Ph.D.
		Thornton, Miss G A, Ph D
<i>English Lang. and Lit.</i>		Asst Lectr
Davis, B E. C., M.A. Ox. Reader.	<i>Mathematics, Pure and Applied</i>	
Ashdown, Miss M., M.A. Camb.	Whitby, Miss L. J., B.A.	
	Palmer, Mrs., M.A. (part-time).	

## GENERAL INFORMATION

Address—Kidderpore Avenue, Finchley Rd., N.W. 3.  
Telephone—0734 Hampstead.

Founded in 1882 by Miss Dudin Brown for the higher education of women. The college is undenominational, but the Principal is required to be a member of the Church of England. Situated near the south-west corner of Hampstead Heath; has residential accommodation for 114 students.

A School of the University in Arts.

Students are not admitted under the age of 18, and are required to pass an Entrance examn. Approved courses (Hons. and Pass) in the Faculty of Science in Bot and Maths. are provided, as well as in Arts. Two Research Studentships are offered to graduates each year of any University. *Fees*: For tuition from 38 to 53 gs, residence £90 per session. There is an Old Students' Assocn. *Publications*: *Prospectus* (July); *Report* (October); *Hermes* (Students' Mag.).

## THE YEAR 1927-28

**BUILDINGS.** A new wing containing 26 students' rooms and two lecture rooms; a second library has been added.

**STUDENTS.** Full-time: total, 144, including 5 graduates. Part-time: total, 5, including 3 graduates.

**DEGREES OBTAINED.** Ph D., 1; M.A., 2; M.Sc., 1; B.A. Honours, 39; B.Sc. Honours, 4.

# THEOLOGICAL SCHOOLS OF THE UNIVERSITY

## RECOGNIZED TEACHERS

In the following list the names of the Theological Schools are indicated by symbols thus .

HACKNEY AND NEW COLLEGE, HAMPSTEAD (N.).	WESLEYAN COLLEGE, RICHMOND (WR.).
KING'S COLLEGE THEOLOGICAL DEPT. (KT.).	ST. JOHN'S HALL, Highbury (J.).

### *Theology*

Barber, W. T. A., M.A. Camb, D D. Dub. (WR)	Jenkins, C., M.A. Ox, F S A. (KT.).
Box, G. H.	Matthews, W R, M A, D D. (KT).
Davies, W. A, M.A. Ox. and Wales, B D. (N.).	Oesterley, W D E, D D, M A (KT)
Dearmer, P, D D Ox (KT).	Relton, H. M., D D (KT.).
Garvie, A. E, M.A. Glas. and Ox., D.D. Glas. (N.).	Robinson, H W, D D Edin, M A Ox and Edin (N)
Gilbert, T W, D D Ox (J)	Rogers, C. F., M A Ox (KT.).
Gore, Rt. Rev. C., D D., D C.L. Ox., D.D. Edin. and Durh., LL.D. Camb. and Birm. (KT.).	Smith, C. R., B.A., D D. (WR.).
Hanson, H., M.A. Ox., B D. (KT.).	Smuth, F. H, B.D. (KT.).
Irwin, O A. C, M A, B D (J)	Smith, H, M A. Camb. (J.).
	Tasker, R V G, M A Camb (KT)
	Waterhouse, E. S., M.A., D D. (WR.).

## GENERAL INFORMATION

HACKNEY AND NEW COLLEGE, HAMPSTEAD (Congregational), Finchley Road, N.W.3. Principal—A. E. Garvie, M.A., D.D Secretaries—Rev. H. Staines, M.A., B.D., and Rev. T. R. Grantham.

New College, founded in 1696 and reconstituted in 1850, and Hackney College, founded in 1803, were merged into one institution in 1924. *Library*, 75,000 vols. Sessional fee, 6 gs. for each class. "Internal" students—26.

KING'S COLLEGE, THEOLOGICAL DEPARTMENT (Church of England), Strand, W.C.2. Telephone—City 9851. Dean—Rev. W. R. Matthews, M.A., D.D. Secy.—S. T. Shovelton, M.A.

Founded 1829 (v. *supra*, King's College). Complete courses for all Theol. degrees. Day and Evg. Classes. *Fees*: for tuition, undergraduate courses, £32 per session; evening classes, 5 gs. per term. *Hostel* for students: fee for residence, £22 per term. Full-time students, 180; internal students of the University, 56. The College grants A.K.C. Diploma in Theology.

WESLEYAN COLLEGE, RICHMOND, Surrey. Principal—Rev. W. T. A. Barber, M.A., D.D. Secy. of Committee—Rev. Prebendary L. F. Church, B.A.

Opened 1843. All students are accepted candidates for Ministry of Wesleyan Methodist Church. Residential accommodation for 60. "Internal" students—13.

ST. JOHN'S HALL, Highbury, London, N 5 (Church of England). Principal—Rev. T. W. Gilbert, D.D. Hon. Secy. of Council—Rev. H. W. Hinde, M.A.

Founded and endowed 1863 by Dr. A. Peache, Chancellor of the Western Univ. of Canada. Courses for L.Th. Durham as well as for B.D. of London. *Fees*: Entrance, 2 gs.; board and tuition, £93. Residential accommodation for 70 students. "Internal" students—3.

# MEDICAL SCHOOLS OF THE UNIVERSITY

## RECOGNIZED TEACHERS

*Note.*—In the following list the names of the Medical Schools are indicated by symbols thus :

ROYAL ARMY MED. COLLEGE (AM).	LISTER INSTITUTE (LI).
ST. BART.'S HOSP. MED. COLL. (B).	LONDON (R.F.H.) SCH OF MED.
BETHLEM ROYAL HOSPL. (Bm).	FOR WOMEN (LW).
CANCER HOSPL. (Can.).	MIDDLESEX HOSPL. MED. SCH. (M).
CHARING CROSS HOSPL. MED. SCH. (C).	MAUDSLEY HOSPL. (My.).
ROYAL DENTAL HOSPL. AND LOND.	NAVAL MED. SCH., GREENWICH (NM).
SCH. OF DENT. SURG. (D).	SCH. OF PHARMACY (P).
GUY'S HOSPL. MED. SCH. (G).	ST. GEORGE'S HOSPL. MED. SCH. (SG).
LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE (H).	ST. MARY'S HOSPL. MED. SCH. (SM).
KING'S COLL. HOSPL. MED. SCH. (KM).	ST THOMAS'S HOSPL. MED. SCH (T).
LONDON HOSPL. MED. COLL. (L).	UNIV. COLL. HOSPL. MED. SCH. (UM).
	WESTMINSTER HOSPL. MED. SCH (W).

and names of certain Hospitals having recognized teachers thus :

NATIONAL INSTITUTE FOR MEDICAL RESEARCH (23).	NATIONAL HOSPL. FOR PARALYSED AND EPILEPTIC (26)
BROMPTON HOSPL. FOR CONSUMPTION (24)	ROYAL LONDON OPHTHALMIC HOSPL. (27)
HOSPL. FOR SICK CHILDREN (25).	

### *Anæsthetics*

Boyle, H. E. G., M.R.C.S., L.R.C.P. (B).	Shirley, H. J., C.M.G., M.D., F R C S. (UM ).
Chaldecott, J H, L R C P. (SM )	Sprott, Barbara, M B, B S (LW )
Charles, H, M R C S, L R C P. (M )	<i>Anatomy</i> [Prof (B )
Daly, A S., M.R.C.S., L R C P. ,,	Clark, W. E Le G, F.R.C S
Gandy, E W, O.B.E., B A Camb, M.R C S, L R C P (W )	Frazer, J. E. S., F.R.C.S. Prof. (SM.).
Hughes, C H. M, M B, B S (KM )	Johnston, T. B, M B., Ch B Edin. Prof (G )
Mennell, Z, M B (T).	Keene, Mrs. M. F. L., M.B., B.S, Prof. (LW.).
Playfair, E., M.B. (KM ).	Mitchiner, P. H., M.D., M.S., F.R.C.S (T.).
Richards, H. A, M A. Camb. (KM ).	Parsons, F. G, F R C S. Prof. (T.).
Shipway, F. E., M.A., M D, B.Ch. Camb. (G.).	Wright, W, D Sc. Bir., M.B, Ch.B. Manc., F.R C.S. Prof. (L.).

(B), (C), etc., (23), (24), etc., v. *Note* above

Yeates, T., M.B., C.M. Edin., B.Hy.,  
D.P.H. Durh. Prof. (M.).

*Bacteriology*, v. also Path.

Bamforth, J., M.D. (T).

Bulloch, W., M.D., C.M., LL.D.  
Aberd., F.R.S. (recogd. in

Path.) Goldsmiths' Prof (L).  
Canti, R. G., M.A., M.D Camb (B).

Douglas, S. R., F.R.S (23).

Dudgeon, L. S., C.M.G., C.B.E.,  
F.R.C.P. (T)

Duncan, J. T. (H)

Eyre, J. W. H., M.D., M.S. Durh.,  
D.P.H. Camb. Prof. (G).

Fleming, A., M.B., F.R.C.S. (SM).

Freeman, J., M.A., D.M., B.Ch.  
Ox. (SM).

Goadby, Sir Kenneth W., K.B.E.,  
L.R.C.P., M.R.C.S., L.D.S.,

D.P.H. Camb (UM).

Hicks, J. A. B., M.D., M.S. (W).

Hunt, E. L., D.P.H. Camb., M.B.,  
B.S. (also in Path) (SG).

Ledingham, J. C. G., C.M.G.,  
M.A., M.B., Ch.B., D.Sc.

Aberd., F.R.S. Prof (LI)

Nabarro, D. N., B.Sc., M.D.,  
D.P.H., F.R.C.P. (25).

Petrie, G. F., M.D., Ch.B. Aberd  
(LI)

Ross, Joan M., M.B., B.S. (LW).

Steadman, F. St. G., M.R.C.S.,  
L.R.C.P., L.D.S., D.P.H.

(D)

Topley, W. W. C., M.A., M.D., B.Ch.  
Camb, F.R.C.P. Prof (H).

Wilson, G. S., M.D., B.S., D.P.H.  
(H).

Wright, Sir A. E., K.B.E., C.B.  
Prof. (SM).

Wright, H. D., B.A. Tasmania,  
M.B., Ch.B. Edin. (UM).

*Bio-Chemistry*, v. also Chem.  
Path.

Dodds, E. C., Ph.D., M.B., B.S.  
Prof. (M.).

Harden, A., D.Sc. Manc., Ph.D.  
Erl., F.R.S. Prof. (LI)

McLean, Ida S., D.Sc. (LI).

Reeves, H. G., D.Sc., M.Sc., Ph.D.  
Birm. (B)

Robison, R., Ph.D. Leip., D.Sc.  
(LI).

Ryffel, J. H., M.A., B.Ch. Camb.,  
B.Sc., F.I.C. (recogd. in

Forensic Med) Reader (G)  
Zilva, S. S. (LI).

*Biology*

Cunnington, W. A., M.D. (B).

Evans, T. J., M.A. Ox. (G, 9).

Leigh-Sharpe, W. H., B.Sc. (SM)

Mudge, G. P., A.R.C.S. (L., LW)

Rushton, W., A.R.C.S. (T)

Woodger, J. H., B.Sc. Reader (M)

*Chemistry*

Candy, H. C. H., B.A., B.Sc.,  
F.I.C. (L).

Ellis, G. W., O.B.E., D.Sc. (SM)

Gibson, C. S., O.B.E., M.A. Ox.  
and Camb., B.Sc. Ox., M.Sc.

Manc., F.I.C. Prof. (G).

Hurtley, W. H., D.Sc. Reader (B).

Lowndes, J., F.I.C. (T)

Plimmer, R. H. A., D.Sc. Prof. (T).

Tuck, W. B., D.Sc. Prof. (M).

Widdows, Sybil T., B.Sc., F.I.C.  
(LW).

*Chemistry, Pathological*, v. also  
Bio-Chem.

Mann, S. A., B.Sc. (My).

de Wesselow, O. L. V., M.B., B.Ch.  
(T).

*Chemistry, Physiological*

Gardner, J. A., M.A. Ox., F.I.C.  
Reader (LW., SG).

*Dental Science*, v. *infra*

*Dermatology*

Barber, H. W., B.Ch., M.B., M.A.  
Camb, F.R.C.P. (G)

Davis, H. D., B.A., B.M., B.Ch.  
Ox., F.R.C.S. (LW).

Dore, S E., M.A., M.D., B.Ch.  
Camb., F.R.C.P. (W., T.).

Drake, J. A., M.D., D.P.H. (KM.).

Gray, A. M. H., C.B.E., M D,  
B S., F.R.C.S., F R C P  
(UM).

Little, E. G. G., B.A Cape, M D,  
F.R.C.P. (SM.)

MacCormac, H (v. Med., p. 161)  
(M).

Macleod, J. MacL H, M D,  
C M Aberd, M A. St And.,  
F R C P (C).

O'Donovan, W. J., M D. (L).

Roxburgh, A C, M A, M D,  
B Ch (B)

### *Diseases of Children*

Barrington-Ward, L. E., M.Ch.  
Edin., F.R.C.S. (25)

Cameron, H C, M A Camb and  
Glas., M.D. Camb, F R C P.  
(G.).

Chodak-Gregory, Hazel, M D,  
M R C P (LW)

Fairbank, H A. T, O B E., M S,  
M.B., F.R.C.S., L D S  
(25, KM.).

Fletcher, H M, M.A, M.D, B Ch.  
Camb, F.R.C.P (B)

Frew, R. S, M D., Ch B Edin.  
(25)

Hutchison, R., M.D., C.M. Edin.,  
F.R.C.P. (25).

Jewesbury, R. C., M.A., M.D. Ox.,  
F.R.C.P. (T.).

Maitland-Jones, A G, M D, B S.  
(L).

Paterson, D. H., B.A., M.B., Ch B.  
Manitoba, M.R.C.P. (W.).

Poynton, F. J., M D, F R C P  
(25, UM).

Still, G. F, M D., B.Ch., M A.  
Camb, F.R.C.P. (25, KM).

Thompson, H. T., M.D, B Ch.,  
M.A. Camb., B.Sc., F.R.C.P.,  
F.R.C.S. (25, L).

Thursfield, J. H., D.M., M A Ox,  
F.R.C.P. (25, B)

### *Diseases of Women and Midwifery*

Banister, J B, M A, M D, B Ch,  
F R C P (C)

Barris, J. D, B.A., M B., B Ch.  
Camb., F.R.C.S. (B)

Berkeley, G H. A. C., M A, M D.  
M Ch Camb., F.R.C.P. (M)

Bonney, W. F. V., M D, M S,  
B.Sc, F R C S (M).

Bourne, A. W, B A, M B, B Ch  
Camb, F R C S (SM)

Browne, F J, M D, Ch B Aberd,  
D Sc Edin

Prof of Obst Med (UM)

Chapple, H., M.A., M Ch, M.B.  
Camb, B Sc, F R C S (G)

Cook, F, M B, B S, B.Sc.,  
F.R.C.S (G.).

Dearnley, Gertrude, M D (LW)

Dodd, S, M A., M B, B Chr.  
Camb. (W.).

Donaldson, M, B A, M B, B Ch  
Camb, F R C S. (B)

Eden, T. W, M D Edin, F R C P  
(C)

Fairbairn, J. S, M A, M B., B Ch  
Ox., F.R.C.P, F.R.C.S (T)

Gilhatt, W, M D, M S, F R C S  
(KM)

Goodwin, A., M.D, B S, F.R.C.S.  
(W)

Hedley, J P, M A, M Ch, M B  
Camb, F R C P, F R C S

(T)

Holland, E., M.D, F.R.C.S.,  
F R C P (L)

Lack, V. J. F, M B, B S (L).

McIlroy, Anne L, O B E, M D,  
B S, D Sc Glas

Prof of Obst and Gyn (LW)

McNair, A. J., LL.M, M.A. Camb.  
(G.).

Palmer, A. C., O B E, M B, B S,  
F R C S (KM)

Roy, D. W., M A, M B., B Ch.  
Camb, F.R.C.S. (SG.).



Shaw, W, M.A., M.B, Ch B  
Camb, F.R.C.S (B)  
Smith, G. F. D, M A, B.M, B Ch.  
Ox., F R C S (SG)  
Stevens, T. G, M D, F R C S.  
(SM)  
White, C, M.D., F R C.P.,  
F.R.C.S. (UM).

*Entomology, Medical*

Buxton, P. A, M A. Camb. (H.).  
Wigglesworth, V B, M A, B Ch  
Camb (H)

*Forensic Med, v. also Bio-Chem.,  
Chem.—Path.*

Brend, W. A, M.A. Camb. M D,  
B Sc (C)  
Day, H. B, M.D., B S, F.R.C.S  
(KM).  
Jones, G, M A, B.M, B.Ch Ox,  
D P H. (L)  
Lynch, G. R., M.B., B S., D.P H  
(W.)  
Lyster, R A., M.D, Ch.B, B Sc  
(Pub. Health), D P.H Birni,  
B Sc (also in Hyg) (B).  
Smith, E, M.D (T).  
Spilsbury, Sir Bernard H, M A,  
B M, B Ch Ox (LW)  
Willcox, Sir Wm H., K C.I E.,  
C B, C M.G., M.D, B Sc,  
F.R.C.P. (SM)

*Helminthology*

Cameron, T W M, M A, B.Sc,  
Ph D Edin, M R C V.S (H)  
Leiper, R T., D Sc, M D., Ch B.  
Glas. Prof. (H.).

*Hygiene*

Brincker, J. A. H., B A, M B.,  
B Ch. Camb., D P.H., F I C  
(SM.).  
Foulerton, A. G. R., O.B.E.,  
D.P.H. Camb., F.R C.S.  
(LW.).  
Jameson, W. W., M.A., M.D.  
Aberd, D P.H. (G.).

Lyster, R. A. (v Forensic Medi-  
cine) (B.)  
Porter, C, M.D., C.M., B Sc.  
Edin. (M).  
Spitta, H. R. D., M.V O., M D.  
Durh, D P H Camb. (SG.)

*Laryngology, Oto-Rhino-*

Carte, G. W., M.B, B Ch. Ox.,  
F R C S (L).  
Chubb, G. C, D Sc., M.B., B.S.,  
F.R.C.S. (W).  
Cleminson, F. J., M A, M Ch.  
Camb, F R.C.S. (M.).  
Davis, E D. D., F.R C.S. (C).  
Dundas-Grant, Sir J., K.B E.,  
M.D., C.M., M.A. Edin.,  
F.R.C.S. (24).  
French, J G, M B, M S., F.R.C.S.  
(LW).  
Graham, C I., F.R.C.S. (SM).  
Harmer, W. D, M Ch, M B, M A.  
Camb., F R C S. (B).  
Hastings, S, M.S., M B., F.R.C.S.  
(M.).  
Hope, C W. M., M D., B.S. Durh.,  
F.R.C.S (KM).  
Howarth, W. G., M A, M B,  
B Ch. Camb, F.R.C.S. (T.).  
Just, T. H., B.A., M.B., B.Ch.  
Camb., F.R.C.S. (B).  
Layton, T. B, M.B., M.S, F R.C.S.  
(G.).  
Lees, K. A., M A., M.B., B.Ch.  
Camb, F.R.C.S. (SM).  
Marriage, H. J., M.B., B.S.,  
F R C S. (T).  
Mollison, W. M, C B E, M A.,  
M Ch. Camb, F R C S. (G.).  
Morris, W., F.R.C.S. Edin. (L).  
Muecke, F. F, C B.E., M.B., B.Ch.  
Adel, F.R.C.S. (L)  
Negus, V. E., M.S., M.B., F.R.C.S.  
(KM).  
Patterson, N., M.B., Ch.B. Edin.,  
F.R.C.S. (L).  
Rose, F. A., M.A., M.B. B.Ch.  
Camb., F.R.C.S. (B.).

- Scott, S R, M S, M.B., F.R.C.S. (B., 26)  
 Tilley, H., B.S., M.D., F.R.C.S. (UM)  
*Medicine*, v. also Chem—Path,  
 Dis. of Child., Mental Dis.,  
 Pharmacol.  
 Abrahams, A., B.A., M.D., B.Ch.  
 Camb. (W).  
 Beaumont, G. E., M.A., D.M. Ox.,  
 F.R.C.P., D.P.H. (M).  
 Bedford, D. E., M.D. (M).  
 Bennett, T. I., M.D. (M).  
 Boldero, H. E. A., M.A., D.M.,  
 B.Ch. Ox. (M).  
 Bolton, C., C.B.E., M.D., B.S.,  
 D.Sc., F.R.C.P., F.R.S. (UM).  
 Bosanquet, W. C., M.A., D.M. Ox.,  
 F.R.C.P. (C., 24)  
 Brain, W. R., M.A., D.M., B.Ch.  
 Ox. (L).  
 Briscoe, Sir John C., Bart., M.D.,  
 F.R.C.P. (KM).  
 Broadbent, Sir John F. H., Bart.,  
 M.D., B.Ch., M.A. Ox.,  
 F.R.C.P. (SM).  
 Brown, W. L., M.A., M.D., B.Ch.  
 Camb., F.R.C.P. (B).  
 Burrell, L. S. T., M.A., M.D., B.Ch.  
 Camb., F.R.C.P. (LW).  
 Cameron, H. C., M.D. Camb.,  
 F.R.C.P. (G).  
 Campbell, J. M. H., M.A., D.M.,  
 B.Ch. Ox. (G).  
 Carlill, H., M.A., M.D., B.Ch.  
 Camb. (W).  
 Cassidy, M. A., M.A., M.D., B.Ch.  
 Camb., F.R.C.P. (T).  
 Clark-Kennedy, A. E., M.D.  
 Camb. (L).  
 Cockayne, E. A., M.A., D.M. Ox.,  
 Ch.B., F.R.C.P. (M).  
 Collier, J. S., M.D., B.Sc., F.R.C.P.  
 (26).  
 Conybeare, J. J., B.A., D.M. Ox.  
 (G).  
 Crawford, R. H. P., M.D., B.Ch.,  
 M.A. Ox., F.R.C.P. (KM).  
 Dawson of Penn, The Rt. Hon  
 Lord, G.C.V.O., K.C.M.G.,  
 C.B., M.D., B.Sc., F.R.C.P.  
 (L).  
 De Souza, D. H., M.D., D.Sc.,  
 F.R.C.P. (W).  
 East, C. F. T., M.A., B.M., B.Ch.  
 Ox. (KM).  
 Elliott, T. R., C.B.E., M.A., M.D.  
 Camb., F.R.C.P., F.R.S.  
 Prof. (UM).  
 Ellis, A. W. M., O.B.E., M.D.  
 Prof. (L).  
 Evans, A. G., B.A., M.D. Camb.,  
 F.R.C.P. (B).  
 Feiling, A., B.A., M.D., B.Ch.  
 Camb., F.R.C.P. (SG).  
 Fenton, W. J., M.A., M.D., B.Ch.  
 Camb., F.R.C.P. (C., 24).  
 Firth, A. C. D., M.A., M.D., B.Ch.  
 Camb., F.R.C.P. (LM).  
 Fletcher, H. M., M.A., M.D., B.Ch.  
 Camb., F.R.C.P. (B).  
 Forsyth, D., M.D., D.Sc., F.R.C.P.  
 (C).  
 Fraser, F. R., B.A. Camb., M.B.,  
 Ch.B., F.R.C.P. Edin.  
 Prof. (B).  
 French, H. S., C.B.E., M.D., B.Ch.,  
 M.A. Ox., F.R.C.P. (G).  
 Gainsborough, H., M.A., M.B.,  
 B.Ch. Camb. (SG).  
 Gosse, A. H., M.D., M.A. Camb.  
 (SM).  
 Gow, A. E., M.D., B.S. (B).  
 Graham, G., M.D. Camb. (B).  
 Hare, Dorothy C., M.D. (LW).  
 Harris, W., B.A., M.D., B.Ch.  
 Camb., F.R.C.P. (SM).  
 Hartley, Sir Percival H.-S., C.V.O.,  
 M.D., B.Ch., M.A. Camb.,  
 F.R.C.P. (B., 24).  
 Hobhouse, E. W. N., M.A., M.B.,  
 B.Ch. Ox. (LW).  
 Holmes, G. M., C.M.G., C.B.E.,  
 M.D., B.Ch., B.A.O., B.A.

- Dub., F.R.C.P. (Med. and  
*Ophthalmology*) (26).
- Horder, Sir Thos. J., Bart., M.D.,  
B.Sc., F.R.C.P. (B.).
- Hoskin, T. J., M.A., M.D., B.Ch.  
Camb. (LW.).
- Howell, C M H, M.A., M.D. Ox.,  
F R C P. (G).
- Hunter, D, M D., B S. (L)
- Hurst, A. F, M.D. (v. Neurology)  
(G.).
- Lakin, C. E., M.D., B S., F R C S,  
F.R.C.P. (M).
- Langmead, F. S., M.D., F R C P  
Prof (SM)
- Lewis, Sir T., C B E., D Sc Wales,  
M D., F.R.C.P., F.R.S. (UM).
- Leyton, O. F. F., D.Sc. Lond,  
M A., M.D, B.Ch. Camb,  
F.R.C.P. (L).
- MacCormac, H., C B.E., M.B.,  
Ch.B Edin, F.R.C.P. (M)
- MacLean, H., M D, Ch B Aberd,  
M Sc Liv, D Sc Prof (T)
- McNee, J W, M D, D Sc Glas,  
F R C.P. (UM)
- Marshall, G, O.B.E., M.D. (G).
- Miller, R. H., M.D., B.S., F R.C.P.  
(SM).
- Mutch, N, M.A, M D., B.Ch.  
Camb., F R C.P. (also in  
*Pharmacol*) (G).
- Nelson, T. S., B.A., B.M., B Ch  
Ox. (SG.).
- Parkinson, J, M D, B.S. (L).
- Poulton, E. P., M.A., M.D., B.Ch.  
Ox., F.R.C.P. (G).
- Purves-Stewart, Sir James P. M.,  
K.C.M.G., C.B., M.D., C.M.,  
M.A. Edin., F.R.C.P. (W.).
- Riddoch, G., M.D., Ch.B. Aberd.  
(L.).
- Rowlands, R. A., O.B.E., B.Sc.,  
M.D., B.S. (L.).
- Russell, A. E., M.D., B S, F.R.C.P.  
(T.).
- Russell, J. S. R., M.D., C.M.  
Edin., F.R.C.P. Prof. (26).
- Ryle, J. A, M.D. (G.).
- Shaw, H. B, M.D., B.S, F.R.C.P.,  
F R C S (UM., 24).
- Smith, E. B., M.D., B.S., F.R.C.P.  
(SG).
- Stewart, T. G., M.D., Ch.B. Edin.,  
F.R.C.P. (26).
- Stott, A.W., M A, B Ch Camb. (W)
- Tidy, H. L, M A, D M, B Ch.  
Ox, F R C P. (T).
- Torrens, J. A., M D., B S,  
F R C P. (SG.).
- Tunncliffe, F. W, M.D. (KM.).
- Turner, W. A, C.B., M.D., C.M.  
Edin., F R C P. (KM., 26).
- Wall, R. C B, D.M., B Ch., M A.  
Ox, F R C P. (L., 24).
- Ward, G. E. S, M.D, B.S.,  
F R C P. (M.).
- Willcox, Sir W. H., K.C.I.E., C.B.,  
C.M.G. (SM.).
- Wilson, C. M, M D, B.S, F.R.C.P.  
(SM.).
- Woodwark, A. S, C.M.G, C.B.E.,  
M.D, B.S, F R C P. (W.).
- Young, R. A, C B E, M.D,  
B Sc, F R C P. (M, 24).
- Mental Diseases*
- Craig, Sir Maurice, C.B.E, M.A.,  
M.D., B.Ch. Camb., F.R.C.P.  
(G).
- Devine, H., M.D., B.S., F.R.C.P.  
(My).
- East, W. N., M.D. Lond. (My.)
- Gillespie, R. D., M D., Ch.B.  
Glas. (G.).
- Hart, B, M.D (UM.).
- James, G. W. B, M.D., B.S. (SM.).
- Macnamara, E. D., M.A., M.D.,  
B.Ch. Camb, F.R.C.P. (C.).
- Mapother, E., M.D., F.R.C.S.  
(KM), (My.).
- Moodie, W, M D., Ch.B. St.  
Andrews, D.P.M. (My.).
- Norman, H. J., M.B., Ch.B. Edin.,  
D.P.H. Edin & Glas. (W).
- Phillips, J. G. P., M.D., B.S.,  
F.R.C.P. (Bm).

- Shrubsall, F. C., M.A., M.D. Camb.,  
F.R.C.P., D.P.H. (My.).
- Stoddart, W. H. B., M.D., B.S.,  
F.R.C.P., recogd in Med. at  
Bm. (T).
- Tredgold, A. F., M.D. Durh  
(UM).
- Woods, J. C., M.D., B.S. Lond.,  
B.A. R.U.I. (L).
- Midwifery*, v Diseases of  
Women
- Neurology*
- Birley, J. L., M.A., D.M., B.Ch.  
Ox., F.R.C.P. (T).
- Collier, J. S., M.D., B.Sc., F.R.C.P.  
(Bm).
- Golla, F. L., O.B.E., M.A., M.B.  
Ox., M.B., F.R.C.P. (My).
- Howell, C. M. H., M.A., D.M. Ox.,  
F.R.C.P. (26).
- Hurst, A. F., M.D., B.Ch., M.A.  
Ox., F.R.C.P. (G).
- McAlpine, D., M.D., Ch.B. Glas  
(M).
- Walshe, F. M. R., M.D., D.Sc.,  
F.R.C.P. (UM).
- Wilson, S. A. K., M.A., B.Sc.,  
M.D. Edin., F.R.C.P. (KM, 26).
- Worster-Drought, C. C., M.A.,  
M.D. Camb (Bm).
- Ophthalmology*
- Cargill, L. V., F.R.C.S. (KM).
- Eason, H. L., C.B., C.M.G., M.D.,  
M.S. (G).
- Goulden, C. B., M.A., M.Ch., M.D.  
Camb., F.R.C.S. (L).
- Greeves, R. A., M.B., B.S., B.A.  
R.U.I., F.R.C.S. (M.).
- Griffith, A. D., M.B., B.S.,  
F.R.C.S. (W.).
- Holmes, G. M., C.M.G., C.B.E.,  
M.D., B.Ch., B.A.O., B.A.  
Dub., F.R.C.P. (27).
- Hudson, A. C., M.A., M.D., B.Ch.  
Camb., F.R.C.S. (27).
- James, R. R., F.R.C.S. (SG).
- Jeremy, H. R., F.R.C.S., L.R.C.P.  
(L).
- Juler, F. A., M.B., B.Ch., M.A.  
Camb., F.R.C.S. (SM., 27).
- Lawson, Sir Arnold, K.B.E., M.D.  
Brux., F.R.C.S. (M).
- Lyle, H. W., M.D., B.S., F.R.C.S.  
(KM).
- Moore, R. F., O.B.E., M.A., B.Ch.  
Camb., F.R.C.S. (B., 27).
- Morgan, O. G., M.A., M.B., M.Ch.  
Camb., F.R.C.S. (G.).
- Neame, H., M.B., Ch.B. (UM).
- Ormond, A. W., F.R.C.S. (G).
- Parsons, Sir John H., C.B.E.,  
D.Sc., M.B., B.S., F.R.C.S.,  
F.R.S. (UM., 27).
- Paton, L. J., M.B., B.Ch., B.A.  
Camb., F.R.C.S. (SM., 26).
- Spicer, W. T. H., M.A., M.B.  
Camb., F.R.C.S. (B., 27).
- Whiting, M. H., M.A., M.B. Camb.,  
F.R.C.S. (M).
- Williamson-Noble, F. A., B.A.,  
M.B., B.Ch. Camb., F.R.C.S.  
(SM.).
- Pathology and Anat—Morb*, v  
also Chem, Bact
- Baker, S. L., M.R.C.S., L.R.C.P.,  
D.P.H. Reader (M).
- Boycott, A. E., M.A., B.Sc., B.Ch.,  
D.M. Ox., F.R.S.  
Graham Prof. (UM.).
- Creed, E. ff., M.A., B.M., B.Ch.,  
D.P.H. Ox. (KM.).
- Donaldson, R., M.A., M.D., D.T.M.  
Edin., D.P.H., F.R.C.S. (SG.).
- Dudgeon, L. S., C.M.G., C.B.E.,  
F.R.C.P. (also in Bact)  
Prof (T).
- Goodhart, G. W., M.D. (UM.).
- Hadfield, G., M.D., B.S.  
Prof. (LW.).
- Hicks, J. A. B., M.D., B.S., D.P.H.  
(recogd also in Bact).
- Reader (W.).
- Hunt, E. L., M.B., B.S. (SG.).

- Kettle, E. H., M.D., B.S.  
Prof (B).
- Lakin, C. E., M.D., B.S., F.R.C.P.,  
F.R.C.S. (also in Med.) (M)
- Livingston, A., M.B., Ch.B.,  
M.D.S. Liv. (KM).
- McIntosh, J., M.D., Ch.B. Aberd.  
Prof (M).
- Newcomb, W. B., M.A., M.B.,  
B.Chir Camb (SM)
- Nicholson, G. W. de P., M.A., M.D.  
Prof (G)
- Teale, F. H., M.D., B.Sc., F.R.C.P.  
(UM)
- Turnbull, H. M., M.A., B.Ch.,  
D.M. Ox Prof (L)
- Warwick, W. T., M.A., M.B.  
Camb, F.R.C.S. (M)
- Woods, W. M., M.R.C.S., L.R.C.P.  
(Morbid Histol) (L)
- Pathology, Experimental*
- Chick, Harriette, M.D. (L)
- Martin, Sir Charles J., C.M.G.,  
D.Sc. Shef, D.Sc., M.B.,  
F.R.S Prof (LI)
- Wright, Sir Almroth E., K.B.E.,  
C.B., M.D., B.Ch., Sc.D.  
Dub., B.A. Camb, F.R.S.  
Prof (SM).
- Leitch, A., M.D., Ch.B.  
Prof (Can).
- Douglas, S. R., F.R.S (and  
*Bacteriology*) (23)
- Pharmacognosy*
- Wallis, T. E., B.Sc. Reader (P).
- Pharmacology*, v also Med
- Dale, H. H., C.B.E., M.D., F.R.S.  
(23)
- Greenish, H. G., F.I.C., F.L.S.,  
Doc. Univ. Paris (P).
- Hamill, P., M.A., M.D. Camb,  
D.Sc., F.R.C.P. (B).
- Leyton, O. F. F., M.A., M.D., B.Ch.  
Camb, D.Sc., F.R.C.P. (also  
in Med.) (L)
- Linnell, W. H., M.Sc., Ph.D.  
Durh. (P).
- Morton, C., B.Sc., M.P.S. (11)
- Scarborough, Eleanor M.  
Reader (LW)
- Woolley, V. J., M.A., M.D. Camb.  
(T)
- Physics*
- Brinkworth, J. H., M.Sc. (T)
- Hopwood, F. L., D.Sc. Prof (B)
- Russ, S., D.Sc. Joel Prof (M).
- Stead, G., M.A. Camb.  
Reader (G).
- White, W. H., M.A. Camb., B.Sc.,  
A.R.C.S. (SM).
- Physiology*
- Bond, Muriel, M.Sc. (LW)
- Collingwood, B. J., B.A., M.D.,  
B.Ch. Camb Prof. (SM)
- Cullis, Winifred C., O.B.E., D.Sc.  
Prof (LW)
- Dale, H. H., C.B.E., M.A., M.D.  
Camb., F.R.S (and *Pharmacology*) (23)
- Hartridge, H., M.A., M.D., B.Ch.,  
Sc.D. Camb, F.R.S.  
Prof (B)
- Hewer, E. E., D.Sc. (*Histology*)  
(LW)
- Hill, L. E., M.B., F.R.C.S. (23)
- Huggett, A. S. J. M., Ph.D., M.B.,  
B.S., B.Sc. Lond. (T)
- Mellanby, J., M.A., M.D. Camb.  
Prof. (T).
- Pembrey, M. S., M.A., M.D., B.Ch.  
Ox., F.R.S. Prof (G.).
- Roaf, H. E., M.D. Tor., D.Sc. Liv.  
Prof (L).
- Smart, W. A. M., B.Sc., M.B., B.S.  
(L.).
- Symes, W. L., M.R.C.S. (T., 9).
- Vincent, S., D.Sc. Edin., M.D.  
Prof. (M).
- Wright, S., M.D. (M).
- Protozoology* [(H).
- Robertson, A., M.B., Ch.B. Edin.
- Thomson, J. G., M.A., M.B., Ch.B.  
Edin. Reader (H.).
- Woodcock, H. M., D.Sc. (LI.).

*Radiology*

- Colwell, H. A., M.B., D.P.H. Ox.  
(KM).  
Finzi, N S, M.B (B)  
Knox, R, M D. Edin (Can)  
Reynolds, R. J., M.B, B.S,  
D.M.R.E Camb. (C.).  
Salmond, R. W. A., M D, Ch.M.  
Aberd., D.P.H, D.M.R.E  
(UM.).  
Webster, J. H. D., M.D., Ch.B.  
Edin. (M.).

*Surg., v. also Dis. of Child.*

- Addison, O. L., M.B., B.S,  
F.R.C.S. (25).  
Armour, D. J., C.M.G., M.B., B.A.  
Tor., F.R.C.S. (26).  
Back, I, M.A., M.B, B Ch Camb,  
F.R.C.S (SG.)  
Ball, W. G., F.R.C.S (B)  
Bankart, A. S B, M.A., M Ch.  
Camb, F.R.C.S. (Ortho-  
pædics) (M).  
Bromley, L., M B., M Ch Camb,  
F.R.C.S (G)  
Bryan, C W G, F.R.C.S. (SM).  
Buxton, N. St. J. G. D., M.B,  
B.S. Lond., F.R.C.S. (KM)  
Cade, S., F.R.C.S. (W.).  
Cairns, H. W. B., M.B., B.S. Adel,  
F.R.C.S (L.).  
Carling, E. R, M B, B S, F.R.C.S.  
(W.).  
Cheatle, Sir George L., K.C.B.,  
C.V.O., F.R.C.S. (KM.).  
Choyce, C C, C M G, C.B.E.,  
B.Sc, M D. Edin, F.R.C.S  
(UM ).  
Clogg, H. S., M S., M B, F.R.C.S.  
(C).  
Colquhoun, G. R. E., F.R.C.S.  
(SG.).  
Cope, V. Z., M.A., M.D., M S.,  
F.R.C.S. (SM)  
Cunning, J, M B., B S Melb.,  
F.R.C.S. (LW.).  
Daniel, P. L., F.R.C.S. (C.).

- Davies-Colley, R., C.M.G., M.A.,  
M.Ch. Camb., F.R.C.S. (G).  
Dunhill, T. P, C M G., M.D.,  
B S Melb. (B.)  
Edmunds, A., M.S., B.Sc. (KM).  
Edwards, A. T., M.A., M.Ch  
Camb, F.R.C.S. (W)  
Edwards, H. C, M B, B S,  
F.R.C.S (KM).  
Elmshe, R.C., M.B., B.S., F.R.C.S.  
(B).  
English, Sir Thos. C., K.C.M.G.,  
M.B., B.S., F.R.C.S. (SG.).  
Evans, A. H., O.B.E., M D, M S,  
F.R.C.S (W).  
Everidge, J, O.B.E., F.R.C.S.  
(KM).  
Ewart, G. A., B.A. Camb., F.R.C.S.  
(SG.).  
Fagge, C. H., M.S., M.B., F.R.C.S.  
(G.).  
Fedden, W. F., M.S., M.B.,  
F.R.C.S. (SG).  
Fitzwilliams, D C L, C.M.G., M.D.,  
Ch.M. Edin., F.R.C.S. (SM.).  
Frankau, C. H. S., C.B.E., M.B.,  
B.S., F.R.C.S. (SG.).  
Gask, G E., C.M.G., F.R.C.S  
Prof. (B).  
Gordon-Taylor, G, M A. Aberd,  
M S, B Sc, F.R.C.S. (M.).  
Gordon-Watson, Sir Charles,  
K.B.E., C.M.G., F.R.C.S. (B).  
Gould, E. L P, M.A, M.Ch., D M.  
Ox. (M).  
Gray, H. T., M.A., M.Ch. Camb.,  
F.R.C.S. (25).  
Handfield-Jones, R M., M B,  
M.S., F.R.C.S. (SM.).  
Handley, W. S., M.D., M S,  
F.R.C.S (M.).  
Howard, R. J., C.B.E., M.S., M.B.,  
F.R.C.S. (L.).  
Hughes, E. C., M.A., M.Ch. Camb.,  
F.R.C.S. (G.).  
Hunter, J B, M A., M.Ch. Camb,  
F.R.C.S. (KM.).

- Joll, C. A., M.B., B.Ch. Brist.,  
M.B., M.S., B.Sc. (LW.).
- Keynes, G. L., M.A., M.D. Camb,  
F.R.C.S. (B).
- Legg, T. P., C.M.G., M.S., M.B.,  
F.R.C.S. (KM).
- Lett, H., C.B.E., M.B., Ch.B.  
Manc., F.R.C.S. (L).
- Lewis, Emily C., M.S., M.B.,  
F.R.C.S. (LW).
- Lindsay, E. C., B.Sc. N.Z., M.B.,  
B.S., F.R.C.S. (L)
- Low, V. W., C.B., M.D., B.S.,  
F.R.C.S. (SM).
- Martin, E. K., M.B., Ch.B. (UM).
- Maybury, B. C., M.B., B.S.,  
F.R.C.S. (T)
- Milne, R., M.D., M.S., F.R.C.S.  
(L).
- Mitchiner, P. H., M.B., M.S.,  
F.R.C.S. (T)
- Mullally, G. T., M.S. (W)
- Murray, J., M.B., B.Ch. Dub.,  
F.R.C.S. (M).
- Neligan, G. E., B.M., B.Ch. Ox.,  
F.R.C.S. (L).
- Nitch, C. A. R., M.B., M.S.,  
F.R.C.S. (T).
- Norbury, L. E. C., M.B., B.S.,  
F.R.C.S. (LW).
- Ogilvie, W. H., M.A., M.D., M.Ch.  
Ox., F.R.C.S. (LW).
- Page, C. M., M.S., F.R.C.S. (T).
- Pannett, C. A., M.D., B.S., B.Sc.,  
F.R.C.S. Prof. (SM).
- Perrin, W. S., M.B., M.Ch. Camb,  
F.R.C.S. (L)
- Periy, A. C., M.B., M.S., F.R.C.S.  
(L).
- Rawling, L. B., B.A., M.B., B.Ch.  
Camb., F.R.C.S. (B).
- Roberts, J. E. H., O.B.E., M.B.,  
B.S., F.R.C.S. (B).
- Romanis, W. H. C., M.A., M.B.,  
M.Ch. Camb, F.R.C.S. (T).
- Rowlands, R. P., O.B.E., M.B.,  
M.S., F.R.C.S. (G).
- Sargent, P. W. G., C.M.G., M.A.,  
M.B., B.Ch. Camb., F.R.C.S.  
(T., 26).
- Shattock, C. E., M.D., M.S.,  
F.R.C.S. (LW).
- Slesinger, E. G., O.B.E., B.Sc.,  
M.S., F.R.C.S. (G).
- Souttar, H. S., C.B.E., M.A.,  
B.M., M.Ch. Ox., F.R.C.S.  
(L).
- Spencer, W. G., O.B.E., M.S.,  
M.B., F.R.C.S. (W).
- Steward, F. J., M.S., M.B.,  
F.R.C.S. (G).
- Taylor, J., M.S., F.R.C.S. (UM)
- Thompson, A. R., M.B., Ch.M.  
Manc., F.R.C.S. (G).
- Thomson - Walker, Sir J. W.,  
O.B.E., M.B., C.M. Edn.,  
F.R.C.S. (KM).
- Trethowan, W. H., M.B., B.S.  
Lond., F.R.C.S. (G).
- Trotter, W. B. L., M.D., M.S.,  
F.R.C.S. (UM)
- Turner, P., M.S., M.B., B.Sc.,  
F.R.C.S. (G).
- Turner, W., M.S., M.B., F.R.C.S.  
(W).
- Verrall, P. J., B.A., M.B., B.Ch.  
Camb, F.R.C.S. (LW).
- Vick, R. M., O.B.E., M.A., M.Ch.,  
F.R.C.S. (B).
- Wakeley, C. P. G., F.R.C.S. (KM).
- Wallace, Sir Cuthbert S., K.C.M.G.,  
C.B., M.B., F.R.C.S. (T).
- Walton, A. J., B.Sc., M.B., M.S.,  
F.R.C.S. (L).
- Waring, Sir Holburt J., C.B.E.,  
M.B., M.S., B.Sc., F.R.C.S.  
(B).
- Warwick, W. T., M.B., Ch.B. (M).
- Webb, C. H. S., M.S., M.B.,  
F.R.C.S. (M).
- Webb-Johnson, A. E., C.B.E.,  
M.B., Ch.B. Manc., F.R.C.S.  
(M).
- Williams, G. E. O., M.D., M.S.,  
F.R.C.S. (UM).

- Wilson, H. W., M.B., M.S.,  
F.R.C.S. (B.). *Dental Mechanics*  
*Trop. Med.* Bull, F. B., L.D.S. (G).  
Hewlett, R. T., M.D., F.R.C.P. Chapman, H., L.D.S. (*Ortho-*  
(H). *dontics*) (L)  
Low, G. C., M.A. St. And., M.D., Matthews, G. F. C., B.D.S. Birm.,  
C.M. Edin. (H). L.D.S. (KM).  
Newham, H. B. G., C.M.G., M.D., Olver, S. H., L.D.S. (UM)  
D.P.H., D.T.M. and H. Camb. Samuel, B., L.D.S. (*Orthodontics*)  
(H) (UM)
- Veneral Diseases* *Dental Prosthetics*  
O'Donovan, W. J., M.D. (L) Allen, A. G., L.D.S. (L).  
Harrison, Col. L. W., M.B., Ch.B. Fry, W. K., L.D.S. (G).  
Glas. (T). Milne, J. B., L.D.S. Edin. (KM.)
- Zoology*, v. also *Protozoology*  
Evans, Thomas James, M.A. Ox. (G).
- Dental Science** *Dental Surgery*  
*Dental Anat. and Physiol.* Buxton, J. L. D., L.D.S. (UM)  
Malleison, H. C., L.R.C.P., Clapham, H. D., M.R.C.S.,  
M.R.C.S., L.D.S. (G) L.R.C.P., L.D.S. (L)  
Pitts, A. T., L.R.C.P., M.R.C.S., Dowsett, E. B., D.S.O., L.D.S.,  
L.D.S. (D) M.R.C.S., L.R.C.P. (G)  
Underwood, A. B. G., M.B., B.S., Livingston, A., M.B., Ch.B., M.D.S.  
L.D.S. (UM) Liv. (Surg. and Path.) (KM).  
Pearce, F. J., L.D.S., D.D.S. (G)  
Sprawson, E. C., M.R.C.S.,  
L.R.C.P., L.D.S. (L).  
Turner, H. W., M.R.C.S., L.D.S. (M).  
Turner, J. G., F.R.C.S., L.D.S. (D)
- Dental Materia Medica*  
Coleman, F., L.R.C.P., M.R.C.S.,  
L.D.S. (D)  
Doubleday, F. N., L.D.S. (G).

## GENERAL INFORMATION

ROYAL ARMY MEDICAL COLLEGE, Grosvenor Rd., S.W. 1. Com-  
mandant—Col. H. E. M. Douglas, V.C., C.M.G., D.S.O.

Opened 1902; under Army Med. Advisory Board; open only to fully  
qualified medical men commissioned in or probationers for the R.A.M.C. or  
I.M.S. Profs of Path. and Bact., Hygiene, Trop. Med., and Military  
Surgery. Special teaching in Physical Training and at Mil. Hospl. (81  
beds), Syphilology. Qu. Alexandra Mil. Hospl. (234 beds) forms part of the  
Coll. Students (average about 70) are probationers and Captains, R.A.M.C.,  
taking 5 mos.' course for promotion. *Residential* accommodation for 70.

ST. BARTHOLOMEW'S HOSPITAL, Medical College, West Smithfield,  
E.C.1. Dean—T. W. Shore, O.B.E., M.D., B.Sc. Sub-Dean—J. B. Hume,  
M.S., F.R.C.S.

Founded 1662. Appointed and Recognized Teachers—43 (v. *supra*);  
*Library*: the largest of the kind in London. *Museum*. 10,000 specimens,  
2000 casts and drawings. *Laboratories*, with facilities for research in  
Path., Pharmacol., etc. 757 beds. *Fees*: 220 gs. for whole curriculum;  
from 1st M.B., 190 gs. *Scholarships*: total annual value over £1200; two for



Research in Path. (£145) and Surg. (£150) open to graduates of any Univ. educated at Bart.'s. Fellowship £600, open to graduates of any Univ. for research in Lymphadenoma *Residential College* within Hospl grounds for 26 students (Warden, R. M. Vick, O.B.E., M.Ch., F.R.C.S.). Large Athletic Grounds. Students' Union, including Athletic Clubs and Abernethian Soc. *Publications*. *Hospital Reports*, annually, and *Journal* (Students'), monthly. Women students are not eligible for admission.

BETHLEM ROYAL HOSPITAL, Lambeth Rd, S E.1. *Physician Superintendent*—J. G. Porter Phillips, M.D., B.S., F.R.C.P.

Founded 1247. A centre for the teaching and practice of *Psychological Medicine*. Two courses of lectures and practical instruction for Dip. Psy. are held annually. Daily clinical instruction classes. Pathological Laboratory. X-ray apparatus. Convalescent Home at Witley, Surrey.

CHARING CROSS HOSPITAL, Medical School, Charing Cross, W.C.2. Dean—F. H. Young, M.D. Secy.—F. Noakes. Founded 1821. Appointed and Recognized Teachers (v. *supra*)—14 *Fees* entrance, 10 gs., annual, 38 gs. Several scholarships, etc.

ROYAL DENTAL HOSPITAL AND LONDON SCHOOL OF DENTAL SURGERY, 32 Leicester Sq, W.C.2. Dean—H. Stobie, L.R.C.P., M.R.C.S., L.D.S. Secy.—W. J. Wadham

Founded 1858. Open to both sexes Recognized Teachers—3 (v. *supra*); others—30. Library, Museum, and Laboratories. X-ray Dept *Fees* £70 for 2 yrs.' Hospl practice and Lectures, or, including 2 yrs.' Dent. Mechanics, £210.

GUY'S HOSPITAL, Medical School, St. Thomas's St., Borough, S.E.1. Dean—Prof. T. B. Johnston, M.B., Ch.B. Secretary—J. H. E. Winston, F.I.S.A.

Founded in connexion with St. Thomas's, 1769; as a separate School, 1825. Appointed and Recognized Teachers—50 (v. *supra*). Library, 10,000 vols. Museum, 5000 specimens and 2000 drawings. 626 beds. Fully equipped Dental Dept with Lab. *Fees*: entrance, £28, annual, £49. Foundations in aid of Research: Lect'ship in Path, approx. £1300 p a, in Clin. Chem, £250; Trav. Studentship, £150; Studentship in Mat. Med, £40; in Path., £250; Dem'rship in Clin. Chem, £150; in Path, £320; Med. Research Fellowship, etc Numerous prizes and entrance scholps. Resident *appointments*—58 annually. *Residential* accommodation for 35 students Furnished rooms, 19s. to 36s. *Students' Publication*: *G.H. Gazette*. Women students are not eligible for admission.

HYGIENE AND TROPICAL MEDICINE, LONDON SCHOOL OF. Director—Dr. Andrew Balfour, C.B., C.M.G., D.P.H. Secy.—R. W. Harris. 25 Gordon St., W.C.1.

This School, constituted by Royal Charter on April 1, 1924, took over on Aug. 1, 1924, the London School of Tropical Medicine, formerly under the control of the Seamen's Hospital Society. The Charter provides that, subject to compliance with the Statutes of the University, it will be recognized in the Faculty of Science and in the Faculty of Medicine in so far as the branches of Public Health, Hygiene, State Medicine, and Tropical Medicine are concerned. The school is being built and equipped with a sum of \$2,000,000 provided by the Rockefeller Foundation, who made the gift on the understanding that the British Government would make adequate grants for staffing and maintaining

the School when the new building is completed. It will include the following departments: (1) Public Health; (2) Bio-Chemistry and Chemistry; (3) Bacteriology and Immunology; (4) Medical Zoology; (5) Epidemiology and Vital Statistics; (6) Tropical Medicine (and Hygiene). It will provide for the training and equipment of public health officers, and for research in the various branches of preventive medicine.

*Tropical Medicine and Hygiene.* The work of the Tropical Division of the School is carried on at present at Endsleigh Gardens, Euston Road, W.C.1. Appointed and Recognized Teachers—16 (*v. supra*). Library, Museum and up-to-date Laboratories with accommodation for 100. In the various Hospls. of the Seamen's Hospital Society are always numerous cases of Trop. Diseases available for teaching purposes. The funds available for encouraging research include the Lord Milner Research Funds, the Wandsworth Bequest, and the E. J. Stanley Memorial. Research expeditions are equipped and maintained by the School and Field Stations established. Students must ordinarily be qualified Med. practitioners. There are 2 sessions of 20 weeks each. An examn. is held at end of each term. Trop. Med. courses suitable for candidates for the M.D. in Trop. Med., Camb. diploma in Trop. Med. and Hyg., and the D.T.M. and H. of the Conjoint Board. Certificates granted. *Fees*: 30 gs. for 20 weeks. *Number of Students* about 70 per session.

KING'S COLLEGE HOSPITAL Medical School, Denmark Hill, S.E. 5. Dean—H. Willoughby Lyle, M.D., B.S., F.R.C.S. Vice-Dean—J. A. Drake, M.D., F.R.C.P., D.P.H. Secy.—S. C. Ranner, M.A.

Appointed and Recognized Teachers—36 (*v. supra*); others—18. *Fees*: entrance, 10 gs.; complete courses for Med. Degree and Diploma examns., 200 gs.; final course only, 93 gs. *Scholarships* Scholarships of a total value of £1095 are offered annually (particulars on application). *Hostel* with accommodation for 80 men students. *Students' Publication* *K.C.H. Gazette*.

LONDON HOSPITAL, Medical College, Turner St., Mile End, E.1. Dean—Prof. W. Wright, M.B., D.Sc., F.R.C.S. Secy.—E. J. Burdon. Women students are not eligible for admission.

Founded 1781. Appointed and Recognized Teachers—39 (*v. supra*); others—65. Library includes Thompson Yates Research Library containing chief foreign periodicals for Anat., Physiol., and Path. Laboratories include those of Path. Inst. for Advanced Research. 950 beds. *Fees*: entrance, 20 gs.; annual, 40 gs. 34 scholps. and prizes. *Hostel* for 25 students. 150 appointments available for students. *Students' Publication*: *L.H. Gazette*.

LISTER INSTITUTE OF PREVENTIVE MEDICINE, Chelsea Bridge Rd., S.W.1. Director—Prof. Sir Charles J. Martin, C.M.G., M.B., D.Sc., F.R.S. Secy.—A. L. White.

Founded 1891 for Research into causation, prevention, and treatment of diseases of men and animals. Open to approved Research students of both sexes, usually without fee. Appointed and Recognized Teachers—8 (*v. supra*); 10 other members of scientific staff.

LONDON (ROYAL FREE HOSPITAL) SCHOOL OF MEDICINE FOR WOMEN, 8 Hunter St., Brunswick Sq., W.C.1. Dean—Lady Barrett, C.B.E., M.D., M.S. Warden and Secy.—Miss Brooks.

Founded 1874. Appointed and Recognized Teachers—26 (*v. supra*); others—32. 268 beds. Special arrangements with several other Hospls. for Clin. study and dresserships, etc. Research Laboratories: Anat., Biol.,

Chem., Obst. and Gyn., Path., Pharmacol., Physics, Physiol. Courses for B.Sc. Hons. in Anat. and Physiol., as well as for Med. degrees and diplomas. Arrangements for Dental students. *Fees*: Composition, for full Med. course, £240, in annual instalments, £35, £60, £60, £50, £35. Students' chambers provided for 72 students. *Students' Publication*—*L.S.M. Gazette*.

MAUDSLEY HOSPITAL, Denmark Hill, S.E.5. Medical Superintendent—E. Mapother, M.D., F.R.C.S. Director of Pathological Department—F. L. Golla, M.B., F.R.C.P.

Founded by the London County Council for research in Psychological Medicine, the teaching of this subject, and the treatment, on a voluntary basis, of those suffering from neuroses and from recoverable forms of mental disorder. The Hospital, which is similar in general character to the Neurological and Psychiatric Clinics of the Continent and America, and the associated Pathological Department, which serves all the London County Mental Hospitals (containing 20,000 patients), were admitted as a School of the University for research in Psychological Medicine on May 7, 1924. The Hospl. has 157 beds and an out-patient department. The Path. Dept. includes a Library and Laboratories for anatomical, bio-chemical, bacteriological, and experimental investigations. Diploma and other courses for undergraduate and graduate students. Facilities for research and for gaining experience. Ordinarily no charge is made for research work, and special grants-in-aid may be made.

MIDDLESEX HOSPITAL, Medical School, Mortimer St., W.1. Dean—E. L. Pearce Gould, M.D., F.R.C.S. School Secy.—R. A. Foley.

Founded 1835. Appointed and Recognized Teachers—38 (v. *supra*); others—13. Over 450 beds, including *Cancer wing* (90); Bland-Sutton Institute of Path with Museum and Labs; *Cancer Research Labs.*; The S.A. Courtauld Institute of Bio-Chemistry. Scholarships, etc., worth £1000 p.a., include 2 of £150 for *Cancer Research*. *Fees*: Entrance, £25; 5 annual, £45. No accommodation for women students.

NAVAL MEDICAL SCHOOL OF THE ROYAL NAVAL COLLEGE, Greenwich, S.E.10. Director of Med. Studies—Surg.-Captain T. B. Shaw, M.B., Ch.B. Edin., R.N.

Opened 1912. Courses (twice a year) in General and Naval Hygiene, Clin. Path., Micro-Biology, for acting Surg.-Lieuts (2 mos, followed by 4 mos at Haslar Hospl.); Surg.-Lieuts. (5 mos) for promotion, for Senior Med. Officers (3 mos). Number of officers under instruction (average)—80 a year.

SCHOOL OF PHARMACY of Pharmaceutical Society of Great Britain, 17 Bloomsbury Sq., W.C.1. Dean—Prof. H. G. Greenish, D. ès Sc. Paris, F.I.C., F.L.S.

Founded 1842. Admitted as a School of the Univ. (in Pharmacy only) on Jan. 1, 1925. Recognized Teachers—3 (v. *supra*), others—7. *Fees*: Course for the Chemist and Druggist Qualifying Examn, £31.10s.; for the Pharmaceutical Chemist Qualifying Examn. and for the B Pharm. degree (2 years), £44:2s. (each year). Open to students of both sexes.

ST. GEORGE'S HOSPITAL, Medical School, Hyde Park Corner, S.W.1. Dean—A. Feiling, M.D., F.R.C.P.

Founded 1752. Appointed and Recognized Teachers—19 (v. *supra*); others—19. 440 beds. *Fees* entrance for Clinical course, 10 gs. Annual composition, 40 gs. Scholarships, etc., worth £180 p.a. for encouragement

of research. *St. G.'s Gazette* is issued 3 times a year. Women students are not eligible for admission.

ST. MARY'S HOSPITAL, Medical School, Paddington, W.2. Dean—C. M. Wilson, M.D., F.R.C.P. Secy.—B. E. Matthews, B.A. *Students' Publication*: *St. M. H. Gazette*.

Founded 1852. Appointed and Recognized Teachers—34 (*v. supra*); others—20. *Fees* Course for 1st M.B., 3 terms, 20 gs; entire curriculum, £200. *Scholarships* £210 (2), £200 (2), £25. *Clinical Units* in Med. and Surg. established in 1920–21.

ST. THOMAS'S HOSPITAL, Medical School, Albert Embankment, S E.1. Dean—Prof L S Dudgeon, C.M.G., C B E Medical Secretary—R J C. Thompson, M.D., M R C P.

Founded in 16th century. Recognized Teachers—37 (*v. supra*); others—36 Path Dept includes Museum with 3000 specimens Large Laboratories for teaching and research Hospl. beds, 602. *Fees* Tuition per annum, £50. Hostel accommodation for 15. Women students are not eligible for admission.

TROPICAL MEDICINE, LONDON SCHOOL OF, *v. supra*—Hygiene.

UNIVERSITY COLLEGE HOSPITAL, Medical School, University Street, W C 1 Dean—A M H Gray, C B E, M D, F R C P, F.R.C.S. Vice-Dean—Gwynne Williams, M.S., F.R.C.S. Sub-Dean for Medical Students—C C Choyce, C M G, C B E., F.R.C.S. Secy—R Sloley. Open to both sexes.

The Med. School was separated from the Univ Coll Med. Faculty in 1905 Recognized Teachers—27 (*v. supra*); others 84. *Library*, 20,500 vols. The *Charles Graham Laboratories*, under the direction of Prof A. E. Boycott, were established in 1902 for research in Path. A limited number of qualified students are admitted as Lab workers, to whom grants may be made. *Fees* course for Final M.B., B.S., or 3rd examn of Conjoint Board—112 gs *Scholarships, etc*: annual value, £1250 *Residence* for Maternity students. *Publications*: *Prospectus, Transactions of Research Dept., Magazine* (Students').

The NATIONAL DENTAL HOSPITAL, founded in 1861, became the Dental Department of Univ College Hospl. in 1914. Address 187–191 Gt. Portland St and 59 Devonshire St, W 1.

WESTMINSTER HOSPITAL, Medical School, 12 Caxton St., Westminster, S.W.1. Dean—A. S. Woodwark, C.M.G., C B.E., M.D., F.R.C.P. Secy.—Major J. Burke, D.S.O.

Founded 1834. Recognized Teachers—29 (*v. supra*); others—14. *Fees*: £40 p.a. and 10 gs. entrance.

23. NATIONAL INSTITUTE FOR MEDICAL RESEARCH, Hampstead, N W.3. Departments for Experimental Pathology and Bacteriology, Biochemistry and Pharmacology, Applied Physiology and Hygiene, and Medical Statistics, each under a separate Director. All communications should be addressed to the Secy., Medical Research Council, 38 Old Queen St, S W 1.

24. BROMPTON HOSPITAL FOR CONSUMPTION AND DISEASES OF THE CHEST, Fulham Rd., S.W.3. Dean—Maurice Davidson, M.A., M.D., F.R.C.P. Sub-Dean—E. E. Atkin, B.A., M.B. (*b*) Med, Oto-Rhino-Laryngology, Pathology. Instruction is given to post-graduation students all the year

round ; instruction is also available to undergraduate students about to enter for their final examination in Medicine (Conjoint Board or University, M.B , etc.) *Fees* for attending the practice of the hospital : 1 guinea for one month, 2 guineas for 3 months, payable to the Dean, Brompton Hospital, to whom all inquiries should be addressed.

25 HOSPITAL FOR SICK CHILDREN, Gt Ormond St , W.C 1 *Dean*—E. I. Lloyd, F.R.C.S. (b) Bact., Dis. of Child., Surg.

26 NATIONAL HOSPITAL, Queen Square, for Diseases of the Nervous System, London, W.C.1. *Dean*—J. G. Greenfield, B Sc , M D (b) Med , Neurology, Ophth , Oto-Rhino-Laryng , Surg. (c) 584.

27 ROYAL LONDON OPHTHALMIC HOSPITAL, City Rd , E C 1. *Dean*—C. Goulden, M.D., F R.C.S. (b) Ophth (c) 220

CANCER HOSPITAL (FREE), Fulham Rd , S W 3 *Dir of the Research Inst*—A Leitch, M D , Ch B *Dir of the Electrical and Radio-therapeutic Dept.*—R Knox, M.D, C M (b) Adv. Pathology, Radiology in relation to malignant disease

[(b) Subjects in which recognized (c) Number of students.]

## FACULTY OF LAWS

The teaching of the Univ. has been arranged on an inter-collegiate basis, the Profs. and Teachers of Univ and King's Colleges and of the London School of Economics dividing the work among them. See also staff lists of Birkbeck College and School of Economics.

### PROFESSORS AND TEACHERS

Ball, W. Valentine, O.B.E., M.A. Camb.* (Railway L ) (K. and E.).	Hurst, G.H. J., M.A., LL M.Camb.* Reader in English L. (U.) and Lectr. in Conveyancing (E ).
de Montmorency, J. E. G., M A., LL.B. Camb.* Quain Prof. of Compara- tive L. (U.).	Jenks, E , M A. Ox. and Camb., D C L Ox , LL B Prof of English L. (E ).
Dold, G., B A , LL.B. Lectr. (Roman Dutch Law) (U )	Jolowicz, H. F., M.A. Ox., M A., LL B. Camb (U ).
Griffith, W. Hussey, M A. Camb * (Common L.) (K.).	Mackay, H. J. H., M A , LL B. Glas * (English L ) (K )
Gutteridge, H. C., M A , LL.M Camb *, Docteur en Droit (Lyon) Cassel Prof. of Comml. and Indust. L. (E.).	Morgan, J. H., B.A. Ox , M.A * Prof of Constitl. L. (U ), and Lectr. in Colonial Const L. (U.).
Hibbert, W. N., LL.D.* (Jurispr. and Roman L.) (K ).	Parry, D. H , M.A Wales, LL M. Camb * Lectr (Property and Common Law) (E ).
Humphries, S , B.A., LL B Camb. (Comml. and Merc. L.) (4)	Sabonadière, A. (Hindu and Mo- hammedan L ) (U. and O ).
	Slessor, Sir Henry H , * K.C. (Ind- dust. L ) (E.).

\* Barrister-at-Law.

For keys to symbols, (K ), etc., see p. 103 ; (4), p. 173.

## OTHER INSTITUTIONS HAVING RECOGNIZED TEACHERS

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| <p>(1) GOLDSMITHS' COLLEGE.*</p> <p>(2) BATTERSEA POLYTECHNIC.</p> <p>(4) CITY OF LONDON COLL.</p> <p>(6) JEWS' COLL.</p> <p>(7) NORTHAMPTON POLYT. INST.</p> <p>(8) NORTHERN POLYT.</p> <p>(9) ROYAL VETERINARY COLL.</p> <p>(10) SIR JOHN CASS TECH. INST.</p> <p>(11) CHELSEA POLYT.</p> <p>(12) WEST HAM MUNICIPAL COLL.</p> | <p>(13) WOOLWICH POLYTECHNIC.</p> <p>(14) MARIA GREY TRAINING COLL.</p> <p>(15) ST. MARY'S COLL , PADDINGTON.</p> <p>(16) FURZEDOWN TRAINING COLLEGE.</p> <p>(18) ROTHAMSTED      EXPERIMENTAL<br/>                         STATION.</p> <p>(19) ROYAL ACADEMY OF MUSIC.</p> <p>(20) ROYAL COLL. OF MUSIC.</p> <p>(21) TRINITY COLL. OF MUSIC.</p> |
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\* Incorporated in the Univ.

## NAMES OF RECOGNIZED TEACHERS

*Note.*—In the following list the names of the institutions are indicated by the numerals—(1), (2), etc., as above. Teachers to whom only probationary recognition has been granted are not included in the list.

- |  |   |
|--|---|
| <p><i>Agriculture</i></p> <p>Keen, B. A , D Sc. (Physics applied to A.) (18).</p> <p><i>Biology, v. supra, Medical Schools' Recognized Teachers</i></p> <p><i>Botany</i></p> <p>Drabble, F , D.Sc. Lond. and Sheff., A.R.C.S., F.L.S. (8).</p> <p>Lacey, H. B., F.L.S. (11).</p> <p><i>Chemistry</i></p> <p>Barnett, E. de B., B.Sc. (10).</p> <p>Clough, G. W., D.Sc. Birm. (9).</p> <p>Cook, J. W., M.Sc., Ph.D. (10).</p> <p>Dean, G., M.A. Camb. (12).</p> <p>Dorée, C., M.A. Ox., D.Sc. (11).</p> <p>Drakeley, T. J., Ph.D., M.Sc., F.C.S., A.I.C. (8).</p> <p>Field, S., A.R.C.S. (Applied C.) (7).</p> <p>Kenyon, J., D.Sc , F.I.C. (2).</p> <p>King, H. J. S., Ph.D., M.Sc. (8).</p> | <p>Lowe, F. H., M.Sc. Manc. (11).</p> <p>Sand, H. J. S , Ph D. Zur , D.Sc. Birm. (10).</p> <p>Smith, F. W., B.Sc. (8).</p> <p>Streatfeild, F. H. (12).</p> <p>Ward, A M , B.Sc , Ph D (10).</p> <p><i>Chemistry, Organic</i></p> <p>Crocker, J. C., M.A. Camb., D Sc., F.C.S. (11).</p> <p>Richardson, D. H., M.Sc. (8).</p> <p><i>Classics</i></p> <p>Crumph, Mary, M.A. (Latin) (1).</p> <p><i>Education, v. also Music</i></p> <p>Brock, F. H. C., M.A. (1).</p> <p>Dean, A. E , M A., M.Litt. (1)</p> <p>Firth, Catherine B., D.Lit. Lond. (16).</p> <p>Graveson, Caroline C., B.A. (1).</p> <p>Green, Mrs. A. N., M.A. Manc.</p> |
|--|---|

- Johnston, Katharine L., M.A. Frier, J. D. (Fluids) (7).  
 Sheff., T.D. Camb., B A. (14). Larard, C. E., M.I.Mech.E.,  
 Meiklejohn, Grace I. W., M.A. M I C.E. (7).  
 Edin. (14). Peck, W. J., M.Sc. (Eng.) Sheff.  
 Reaney, Mabel J, D.Sc. Lond (2).  
 (16). Richardson, D. (7).  
 Silsby, Eleanor, M.Sc. Lond. (16). Scoble, W.A., M.B.E., D.Sc. (Eng.),  
 Smith, Phyllis W., M.A. (14). M.I.Mech.E., A.M.I.C.E. (13).  
 Steppat, Mrs. M. A. A, M.A. Shaw, J. B, A.R.C.S. (2).  
 Durh., M.A. (14).  
 Terry, Edith, M.A. Lond. (16).  
 Wimms, J. H., M.A. Wales, B.Sc. (1).  
*Engineering, Civil*  
 Bolam, W. N, B.Sc. Edin (7).  
 Curnock, W. E. M, M Sc  
 (Eng) Manc., B Eng. Liv,  
 A.M.I.E.E. (Lectr. in Civ. and  
 Mech. E.) (2).  
*Engineering, Electrical*  
 Baillie, T. C., D Sc., M.A. Edin ,  
 A.M.I.E.E. (12).  
 Boraston, C. A., B.Sc. (Eng.) Liv.  
 (7).  
 Bridger, W., B.Sc (Eng ) (12).  
 Burgess, Alfred F., B.Sc. (Eng )  
 (7).  
 Dover, A. T., A M.I.E.E. (2).  
 Dowse, C. M., B.Sc. (Eng.) (7).  
 Hill, H., B.Sc. (Eng ) (7).  
 Howgrave-Graham, R. P. (recog-  
 nized also in Applied Physics)  
 (7).  
 Jolley, A. C. (7).  
 Mann, H. C., B.Sc. (Eng ) (2).  
 Spencer, W. G., M Sc. (Tech.)  
 Manc., A.M.I.E.E. (13).  
*Engineering, Mechanical, v. also  
 E., Civil*  
 Ashworth, M. H., B.Sc. Manc. (12).  
 (13).  
 Davies, V. C., B.Sc., A.M.I.Mech.E. (8).  
 (2).  
 Dumbrill, W. E., B.Sc. (Fluids) Saxelby, F. M., M.Sc. Manc., B.A.  
 (7). (2).  
 Edmonds, H. M., B.Sc. (Eng.) (2). Smith, R. T., B.A. Camb. (13).
- Engineering, Mech., and Sur-  
 veying*  
 Duncan, J., M.I.Mech.E. (12).  
 Gladwyn, A. E, B Sc. (Eng.),  
 A.M.I.Mech.E. (12).  
 Parker, W. E., B Sc (Eng ) Manc.  
 (7).  
*Eng Lang and Literature*  
 Rees, W, M A. Ox, Ph D (1).  
*Geology*  
 Brammall, A, M Sc. (8).  
 Maslen, A. J, F G S. (11).  
*History*  
 Dymond, Dorothy, M A. (1)  
*Law, Commercial and Mercantile*  
 Humphries, S., B.A., LL.B. Camb.  
 (4).  
*Mathematics*  
 Bickley, W. G., M Sc (2).  
 Church, A. E. R., M.A., B.Sc. (10).  
 Clay, R. S, B.A. Camb., D.Sc.  
 (M and Physics) (8).  
 Curzon, H. E. J., M.A. Camb.,  
 D.Sc. (1).  
 Harvey, F. W., M.A. R.U.I, B.Sc.  
 (2).  
 Littlejohn, E. S., M Sc. Manc. (12).  
 Rhind, A., B.Sc., A.R.C.S. (8).  
 Salmon, W. H., M.A. Camb., B.Sc.  
 (12).  
 Saxelby, F. M., M.Sc. Manc., B.A.  
 (2).  
 Smith, R. T., B.A. Camb. (13).



*Medicine and Surgery*, v. *supra*  
(p. 156).

*Metallurgy*

Naish, W. A., A.R.S.M., M.I.M.M.,  
A.I.C. (11).

*Music*

Allen, Sir H. P., Mus. D., M.A. Ox.,  
F.R.C.M. (20).

Bridge, J. C., M.A., Mus. D. Ox.,  
Mus. D. Durh. (21)

Buck, P. C., M.A., Mus. Doc. Ox.,  
M.A. Dub. Prof. (20)

Carse, A., F.R.A.M. (19)

Colles, H. C., M.A., B. Mus. Ox.  
(20)

Dale, B. J., F.R.A.M., F.R.C.O.  
(19)

Dunhill, T. F., A.R.C.M. (20)

Dyson, G., Mus. Doc. Ox. (20)

Farjeon, H., F.R.A.M. (19)

Greenish, A. J., Mus. D. Camb  
(19)

Harrison, J. H. G. (19)

Hickox, W. H., Mus. Bac. Ox.,  
Mus. Doc. Dub., F.R.C.O. (2)

Hinton, A., F.R.A.M. (19)

Kerridge, W. H., M.A., Mus. Bac.  
Camb., A.R.C.M., F.R.C.O.  
(11)

Kitson, C. H., M.A. Camb.,  
Mus. Doc. Ox., F.R.C.O. (20)

McEwen, J. B., M.A. Glas.,  
F.R.A.M. (19)

Macpherson, S., F.R.A.M. (19)

Oldroyd, G., D. Mus. (21)

Salsbury, Janet, Mus. D. Durh.,  
L.R.A.M., F.R.C.O. (21)

Sowerbutts, J. A., B. Mus.,  
F.R.C.O. (19)

Waddington, S. P. (20)

Wallace, W., M.D. Glas., F.R.A.M.  
(19)

Warriner, J., Mus. D. Dub. (also in  
*Pedag.* as applied to Music)

(21)

Wharton - Wells, H., B. Mus.  
Ox. and Durh., F.R.C.O.,  
L.R.A.M. (also recognised in  
*Pedag.* as applied to Music)  
(11).

*Pedagogy*, v. Education and  
Music

*Physics*, v. also Maths.

Charlesworth, J., M.Sc. Manc. (8).

Clarke, F. C., B.Sc., A.M.I.E.E.  
(12).

Clay, R. S., D.Sc. Lond., B.A.  
Camb. (8)

Emsley, H. H. (App. P) (7).

Evans, A. E., B.Sc. (2).

Humphry, R. H. (10).

Laws, S. C., M.A., M.Sc. (7).

Lownds, L., Ph.D. Berl., B.Sc. (11).

Marsh, S., B.Sc. Wales, Ph.D.  
Gott. (2).

Nicol, J., B.A. Camb., B.Sc. (8).

Oschwald, U. A., B.A. (11).

Owen, D., B.A. Camb., D.Sc. (10).

Polson, W., M.A., B.Sc. Aberd.  
(12).

Skinner, S., M.A. Camb. (11).

Starling, S. G., B.Sc., A.R.C.S.,  
A.I.E.E. (12).

Tarrant, A. G., B.Sc., A.R.C.S.  
(11).

Vinycomb, T. B., M.A. R.U.I.  
(13).

*Semitic Languages*

Buchler, A., Ph.D. Leip. (6).

Daiches, S., Ph.D. Leip. (6).

Hirschfeld, H., Ph.D. Stras.  
(S. Epig. and Hebrew and S.)  
(U., 6).

Marmorstein, A., Ph.D. Heid.  
(Bible and Rabbinics) (6).

*Veterinary Hygiene*

Wooldridge, G. H., F.R.V.S. (9).

*Veterinary Pathology*

Hare, T., M.D., B.Ch., B.V.Sc.  
Liv., M.R.C.V.S. (9).

*Zoology*

Leigh-Sharpe, W. H., B.Sc. (11).

## GENERAL INFORMATION

[(a) Principal. (b) Subjects in which recognized. (c) Number of students]

1. UNIVERSITY OF LONDON, GOLDSMITHS' COLLEGE, New Cross, S E 14. Incorporated in the Univ. Warden, and Principal of the Training Dept.—A. E. Dean, M.A. Vice-P'pals. of Training Dept.—F. H. C. Brock, M.A., and Miss C. C. Graveson, B A.

Opened in 1905 in buildings presented by the Goldsmiths' Company, whose "Technical and Recreative Institute" had been carried on therein since 1891. Open to both sexes. Recognized Teachers—8 (v. *supra*)—Art, Classics, Educn., Engl., Hist., Maths.; others—63

*Training Department* Recognized by Bd. of Educn. as a Training Coll. Ordinary course—2 yrs, or for B.A. (Pass) or B.Sc. (General) degree—3 yrs. Lectrs. and Instrs.—34. *Annual fee* for tuition with mid-day meal £25. 10s. or £30 10s, according to the course taken. Hostels provide accommodation for nearly all the women and many men students.

*School of Art* (Day and Evening). Headmaster and 8 Assts. *Fees*. Day, £5 to £15; Evening, 10s. to 30s, per session.

*Engineering and Building Dept.* (Evening). Carried on at expense of L.C.C. and only temporarily retained at the Coll. Courses College Certif and Diploma; National Certificate; C.G.I. exams; Engineering Degree (5 yrs).

2 BATTERSEA POLYTECHNIC, Battersea Park Rd, S W 11 (a) G. F. O'Riordan, B.Sc. (Eng.). (b) Chem, Engin. (Civ., Elec., Mech.), Maths., Music, Physics (c) 2940

4. CITY OF LONDON COLLEGE, White St, Moorfields, E C.2. Director—J. W. Ramsbottom, M.A., M Com. (b) Law (Comm. and Merc.). (c) Day, 254; Evg., 2526.

6. JEWS' COLLEGE, Queen Sq. House, Guilford St, W.C.1. (a) A. Buchler, Ph.D. (b) Hebrew, Semitics. (c) 32.

7. NORTHAMPTON POLYTECHNIC INSTITUTE, St. John St, E C 1. (a) S. C. Laws, M.A., M.Sc. (b) Engin. (Civil, Mech, Elec.), Physics, Chem., Maths. (c) 2722.

8. NORTHERN POLYTECHNIC, Holloway Rd., N.7 (a) R. S. Clay, D.Sc., B.A. (b) Bot., Chem., Geol., Maths., Physics. (c) 3249.

9 ROYAL VETERINARY COLLEGE, Gt College St, Camden Town, N W 1 (a) Prof. F. T. G. Hobday, C.M.G., F.R.C.V.S., F.R.S.E. (b) Biol., Chem., Vet. Hyg, Vet. Path. and Bact., Physiol. (c) 102.

10 SIR JOHN CASS TECHNICAL INSTITUTE, Jewry St., Aldgate, E.C.3. (a) G. Patchin, A.R.S.M., M.I.M.M. (b) Chem., Maths., Physics. (c) 1000 (approx.).

11. CHELSEA POLYTECHNIC, Manresa Rd, Chelsea, S W 3. (a) F. J. Harlow, B.Sc., F Inst P, A R.C.Sc (b) Bot., Chem., Geol., Maths., Metall., Music, Pharm., Physics, Zool. (c) Day, 803; Evg., 2119.

12. WEST HAM MUNICIPAL COLLEGE, Romford Rd., West Ham, E.15. (a) T. C. Baillie, M.A., D.Sc. (b) Chem., Engin. (Elec., Mech.), Maths., Physics, Surveying. (c) Day, 330; Evg., 1600.

13. WOOLWICH POLYTECHNIC, William St., Woolwich, S.E.18. (a) A. F. Hogg, M.A., F.C.S. (b) Chem., Engin. (E., M.), Maths., Phys. (c) 1073.

14. MARIA GREY TRAINING COLLEGE, Salusbury Rd., Brondesbury, N.W.6. (a) Miss K. L. Johnston, M.A. (b) Educn (c) 180

15. ST. MARY'S COLLEGE, 34 Lancaster Gate, W 2 (a) Miss Apperson, M.A. *Head of Training Department*—Mrs. J. A. Green, M.A. (b) Pedagogy. (c) 100.

16. FURZEDOWN TRAINING COLLEGE, Welham Rd., Mitcham Lane, S.W.17. (a) Miss A. Lloyd Evans, M.A. (b) Pedagogy. (c) 264.

18. ROTHAMSTED EXPERIMENTAL STATION, Harpenden, Herts *Director*—Sir John Russell, D.Sc., F.R.S. (b) Science (in its application to Agric.). For research students only.

19. ROYAL ACADEMY OF MUSIC, Marylebone Rd., N.W.1. (a) John B. McEwen, M.A., Mus. Doc., F.R.A.M., F.R.C.M. (b) Music. (c) 930.

20. ROYAL COLLEGE OF MUSIC, Prince Consort Rd., S Kensington, S.W.7. *Director*—Prof. Sir Hugh P. Allen, K.C.V.O., M.A., Mus.D., D.Litt. (b) All Music subjects. (c) 700.

21. TRINITY COLLEGE OF MUSIC, Mandeville Place, W.1. *Director of Studies*—Prof. J. C. Bridge, M.A., Mus.D. (b) Educn. (Ped. as applied to Music), Theoretical M. subjects. (c) 947.

# VICTORIA UNIVERSITY OF MANCHESTER

VISITOR—THE KING.

CHANCELLOR—Rt. Hon. the EARL OF CRAWFORD AND BALCARRES,  
K T, LL.D, D Litt, F R I B A, F R S

VICE-CHANCELLOR—WALTER H. MOBERLY, D.S O., M.A., Litt.D.

PRO-VICE-CHANCELLORS—Prof J S B STOPFORD, M D, F R S, Prof  
L E KASTNER, M A, Litt D

CHAIRMAN OF THE COUNCIL—A. H. WORTHINGTON, B.A.

TREASURER—E. A. KNIGHT.

CHAIRMAN OF CONVOCATION—His Honour Judge F. E. BRADLEY, M A,  
M Com., LL B.

REGISTRAR—NORMAN SMITH, D Sc.

DIRECTOR OF EXTRA-MURAL STUDIES AND SECRETARY TO THE SENATE  
—H. P. TURNER, M A, LL.M.

ADVISER TO WOMEN STUDENTS—PHYLLIS E. CRUMP, M.A.

TUTORS · FACULTY OF ARTS—W. REES, M A, OF SCIENCE—J. E.  
MYERS, O B E, D Sc, OF MEDICINE—A C KELLY, M B, Ch B.,  
OF COMMERCE AND ADMINISTRATION—FRANCES COLLIER, M A

BURSAR—G W KAYE

LIBRARIAN—C. W. E. LEIGH, M.A.

## PROFESSORS, LECTURERS, ETC.

<i>Accounting</i>	[Lectr.	Jefferson, G., M.S Lond, F.R C.S.
Ferguson, H S, M Com, F C A	Lectr.	
Wilkinson, R H E., F C.A.	Asst Lectr.	Paterson, R. S, M B., Ch.B., D.M R.E. Camb Lectr
<i>Agriculture</i> , v. Bot Chem., Ec., Zool.		<i>Archæology</i> , v. also Egypt. Forster, E S, M.B.E, M.A. Ox., F S A. (Prof of Greek in Univ. of Sheffield)
<i>Anatomy</i>		Lectr. (Classical A.).
Stopford, J. S. B., M.D	Prof.	
Stewart, D., M.R.C.S, L.R.C.P.	Lectr.	<i>Architecture</i> , v. also Archæology and Technology—Engin. San.
Cooper, Eugenia R. A., M Sc, M D.	Asst Lectr.	Dickie, A. C., M A., F.S.A., A R.I.B A. Prof.
3 Demrs.		Edwards, W. B., B.Arch. Liv., A.R.I.B.A. Lectr.
<i>Anatomy, Apphed</i>	[Lectr.	McKay, W B, M I Struct. E.
Morley, J., M B., Ch.M., F.R.C.S.	Lectr.	Lectr. (Bldg. Constn.).
Holmes, A. H., M.D.		

Goldstraw, G. A., B.A., A.R.I.B.A.  
Asst. Lectr.  
Grantham, G. J., F.I.S.E. (Bldg.  
Constn) Asst. Lectr.  
Coleman, G. S., D.Sc. (Eng)  
Lond Lectr. (San Eng)

.....  
Lectr. (Italian Mural Painting).  
2 Instrs in Drawing.

*Banking*

Cunliffe, W. Lectr.  
Fraser, Sir D. D., K.B.E., M.Com.  
Lectr. in Practical Bank (H)

*Botany*

Weiss, F. E., D.Sc. Lond, M.Sc.,  
F.R.S. Harrison Prof  
Lang, W. H., M.B., C.M., D.Sc.  
Glas, F.R.S. Barker Prof  
Smith, A. E. H., B.Sc. Edin.  
Sr. Lectr. (Agric. Bot.)  
Howarth, W. O., M.Sc.  
Senior Lectr

Walton, J., M.A. Camb. Lectr.  
Brimble, L. J. F., B.Sc. Lond.  
Lectr.

Massey, Katherine, B.Sc. Edin  
Asst. Lectr.  
Chippindale, H. G., B.Sc.  
Res. Asst. (Mycol.).

*Botany, Cryptogamic*

Lang, W. H., M.B., C.M., D.Sc.  
Glas, F.R.S. Barker Prof

*Chemistry, v. also Physics,  
Physiol., Tech*

Lapworth, A., LL.D., St And and  
Birm, D.Sc. Lond, M.Sc.,  
F.R.S. Sir S. Hall Prof  
..... (Organic C) Prof.

Dixon, H. B., C.B.E., M.A. Ox.,  
Ph.D. Prague, D.Sc., F.R.S.  
Hon. Prof.

Burt, F. P., M.B.E., B.Sc. Lond,  
D.Sc. Bris. (Stoichio-C)  
Reader.

*Senior Lectrs.:*

Smith, Norman, D.Sc.  
Myers, J. E., O.B.E., D.Sc.

Challenger, F., D.Sc. Birm., B.Sc.  
Lond, Ph.D. Gott.

Campbell, C., D.Sc.

*Lectrs.:*

Gaul, E. G., M.Sc. (Agric. Chem.).

Core, A. F., M.Sc. (S.).

Henry, D. C., M.A. Camb.

Fairbrother, F., D.Sc.

Core, C. G., M.Sc. (H., S.).

Burkhardt, G. N., M.Sc., Ph.D.

Herbert, J. B. M., B.Sc.

Smith, A. M., B.Sc., Ph.D. Edin  
(Agric. Chem.)

*Asst. Lectrs.:*

Cavanagh, R., M.A. Ox., B.Sc.  
Lond

Owen, Glyn, M.Sc. Wales.

*Chinese*

..... Lectr.

*Classics, v. also Archæology*

Calder, W. M., M.A. Aberd, Ox  
and Manc, LL.D. Aberd.

Hulme Prof of Greek  
and Lectr in Christian  
Epigraphy.

Conway, R. S., Litt D. Camb.  
and Dub, Dott. Univ. Padua,  
M.A. Camb. and Manc.,  
F.B.A., Hulme Prof. of Latin  
and Indo-Eur. Philol.

Anderson, W. B., M.A. Camb. and  
Manc., D.Litt. Aberd., Prof.  
(Imperial Latin)

Husband, Jeanie, B.A. Liv.

Lectr.

McLachlan, H., M.A., D.D.

(Hellenistic Greek) Lectr.

Clifton, E. W. V., M.A. Ox. Lectr.

Beare, Wilham, M.A. Dub.

Asst. Lectr.

Maguinness, B.A. Dub.

Asst. Lectr.

Winnington-Ingram, R. P., B.A.  
Camb. Asst. Lectr.

Wood, E. J., M.A. Aber, B.A.  
Camb.

- Commerce*, v. Acc., Econ., Rail., Stat.  
*Crystallography*  
 Miers, Sir Henry A, M A, D Sc.  
 Ox, D.Sc. Shef, LL D. Liv,  
 Ph D. Christ., F R S  
 Hon Prof  
 Buckley, H. E., M.Sc. Lectr  
*Dentistry*, v. *infra*  
*Economics*, v. also Banking  
 Clay, H, M A. Ox., M Com (Soc.  
 Econ) Prof  
 Daniels, G W, M A, M Com  
 Jevons Prof.  
 Ashton, T. S, M A  
 (Cur and Fin) Reader.  
 Redford, A, M A, Ph D  
 (Econ Hist) Reader.  
 Orr, J., M A Glas.  
 Sr Lectr. (Agric E.).  
 Dakyns, A. L, M A Ox.  
 Lectr. (Pub. Administn)  
 Jewkes, J, M Com. (Com) Lectr  
 Allen, E, M A. Sheff. Asst Lectr  
 Campbell, C. D, M A.  
 (Admin) Asst Lectr  
 I Res Asst  
 I Tutor.  
*Education*  
 Smith, H. Bompas, M.A. Ox,  
 M Ed Prof  
 Findlay, J J, M.A. Ox, Ph D  
 Leip, M.Ed. Hon Prof.  
 Mark, T., D.Lit. Lond., B.Sc,  
 M Ed. (H.).  
 Burstall, Sara A., B.A. Lond,  
 M.A. Dub (H)  
 Duff, J F, M A Camb Sr Lectr  
 Start, Laura E, M Ed. Lectr.  
 Eggar, Margaret E, N.F.U.  
 Lectr  
 Hindshaw, Winifred, M A., M Ed  
 Lectr.  
 Helm, J. H., B.A., LL B Camb  
 Lectr.  
 Ewing, Irene R. (Teacher of the  
 Deaf) E. Ll. Jones Lectr.  
 Conway, Gladys, B A. Liv. (Con-  
 tinuation School E) Lectr.  
 Vaughan, Frances M, M.A.  
 N.U.I. Lectr.  
 Clarke, Winifrid S Lectr.  
 Jackson, S. F, M A. Manc. and  
 Liv, Litt.D Liv. Lectr.  
 Oppenheimer, Mary (Handwork  
 and Drawing) Lectr.  
 Keighley, T., Mus D. (Elementary  
 E — Singing) Lectr.  
 Borthwick, Phyllis M, M Sc.  
 Bris, B Sc. Lond. Lectr.  
 Ewing, A. W. G, M A. Edin  
 Asst. Lectr. (Speech Training).  
 Medical Officers and 3 Instrs for  
 Elem Tr. Dept.  
*Egyptology*  
 Peet, T. E, M A. Ox (Prof. in  
 Univ of Liverpool) Lectr.  
*Electro-Chemistry*, v Physics  
*Electro-Technics*  
 Beattie, R, D Sc Durh, M I E E.  
 E S. Massey Prof.  
 Gerrard, H, M Sc., A.M I E E.  
 Sen. Lectr.  
 Higham, J, M Sc, A M I E E.  
 Lectr  
*Engineering*, v. also Tech.  
 Gibson, A H, D Sc, M I C.E.,  
 M.I.Mech.E. Beyer Prof  
 Mason, C. M, M.Sc, A.M I.C.E,  
 A M.I Mech.E.  
 Clifton Lectr  
 Jones, Eric, M Sc Lectr  
 Baker, H. W., M Sc Lectr.  
 Mucklow, G F., M Sc Lectr.  
 Hay, J. B M, M C, B Sc Glas  
 Lectr  
 Frith, J., M.Sc., M I.E.E.  
 Special Lectr.  
 Cornish, R. J., B.Sc. Asst. Lectr.  
*English Language and Literature*  
 Sedgfield, W. J, M.A Camb and  
 Manc., Litt.D. Melb.  
 Smith Prof. (E. Lang.).

Charlton, H. B., M.A. Leeds and Manc. Taylor Prof. (E. Lit.).  
 Herford, C. H., Litt D. Camb. and Manc., Ph D Innsbruck, F B A. Hon Prof  
 Wright, J. D., M.A. Senr Lectr.  
 Harmer, Florence E., M.A. Camb., B.A. Lond. Lectr.  
 Waller, R. D., M.A. Asst. Lectr.  
 Bullough, G., M.A. Asst. Lectr.

*French Language and Lit.*

Kastner, L. E., M.A. Camb. and Manc., Litt.D. Camb Prof.  
 Orr, J., M.A. Ox. and Manc., B.Litt. Ox., L ès L. Paris Prof. (F. Language)  
 Marks, J., M A Lectr.  
 Valette, Andrée Lectr.  
 Crump, Phyllis E., M A Lond and Manc. Lectr  
 MacInnes, W A, M C, M A Glas Asst Lectr  
 Robertson, Marion E I, M A. Edin., D ès L Paris Asst Lectr  
 Darbelnet, J, L ès L Paris Asst.

*Geography* [Reader

Barker, W. H., B.Sc. Lond.  
 Fitzgerald, W., B.A. Liv. Asst. Lectr.  
 Kendrick, Marjorie G., B A Camb Asst Lectr

*Geology, Palæont., and Petrol*

Jones, O. T., M A Camb., D Sc. Wales, M.Sc. Manc., F R S Prof.  
 Dawkins, Sir Wm. Boyd, M A., D Sc. Ox. and Manc., F R.S. Hon. Prof.  
 Straw, S. H., M.Sc. Lond. Lectr.  
 Williams, N. T., B.Sc. Wales, M.I.Min E. (*Mining*) Lectr.  
 Hodge, M. B., M.Sc., Ph D. Dur. Asst. Lect  
 Morton, E., M Sc. Asst. Lectr. (Applied G.).

*German and G. Philology*

Johannson, A., M.A. Dorpat and Manc. Henry Simon Prof.  
 Halliday, F. W., M.A. Lectr.  
 Carr, C. T., M.A. Asst. Lectr.

*Hebrew, v. Semitic*

*Histology*, v. Physiol., Med (Path.)

*History*, v. also Econ., Palæog., Theol.

Powicke, F. M., M.A. Ox. and Manc., Litt.D. Liv. (Mediæval) Prof.  
 Fiddes, E., M A. Camb, Aberd. and Manc. Ward Prof.  
 Tout, T. F., M A. Ox. and Manc., D.Litt. Durh. and Ox, Litt D. Manc. and Liv., LL.D. Edin., F B A. Hon. Prof.  
 Tait, J., M A., Litt D., F.B.A. Hon. Prof.  
 Atkinson, D., B.A. Ox. (Ancient). Reader.  
 Redford, A., M A., Ph.D. (Econ.) Reader.  
 Bellot, H. H., M.A. Ox. (Mod. Hist) Reader.  
 Hughes, E., M.A. (Mod. and Milit. Hist) Lectr.  
 ..... Bishop Fraser Lectr.  
 Dunlop, R., M A. (Irish History) (S ).

Treharne, R. F., M.A., Ph.D. Lectr.  
 Asst. Lectrs. :

Pantin, W. A., B A. Ox. (Eccl. H.).  
 Phythian, Mabel, B.A.  
 Chrimes, Kathleen M. T., M A. Ox.

*Italian Studies*

Réborà, P., D.Litt. Turin, M.A. Prof.

*Law*, v. also Acc., Railway

Eastwood, R A, LL.D. Prof.  
 Keeton, G W, M A, LL.M. Camb. Sen. Lectr.





Ellis, R., M.B., Ch.B.  
Asst. Lectr. (Applied P.).  
Ritchie, A. D., M.A. St. And.,  
B.A. Camb.

Lectr. (Physiol. Chem.).  
Willmer, E. N., B.A. Ox., M.Sc.  
Asst. Lectr.  
Brunton, C. E., B.A., M.D. Dub.  
Demr.  
Jackson, Eleanor M., B.Sc. Lond.,  
M.Sc. Demr. (Phys. Chem.)

Hon. Asst. Lectrs. :  
White, H. V., M.D.  
Diggle, F. H., O.B.E., F.R.C.S.  
Langley, G. J., M.B.E., M.D., B.S.  
Lond.

Bramwell, J. C., M.D.  
Hon. Asst. Lectr. (Experimental P.).

*Psychology* [Prot.  
Pear, T. H., B.Sc. Lond., M.A.  
James, H. E. O., B.A., M.Sc.

Lectr.  
Wyatt, Stanley, M.Sc., M.Ed. (S).  
Lee, A., M.A. Camb. (Psych. of  
Relig.).

*Railway Law*  
Turner, H. P., M.A., LL.M. Lectr.

*Religion*, v. Philosophy

*Russian*  
Trofimov, M. V., M.A. Pet. and  
Manc. Sir W. Mather Prof.

*Semitic Langs. and Lit.*  
Canney, M. A., M.A. Ox. and  
Manc. (Prof. of Bibl. Crit.)  
Prof.

Fish, T., Ph.D. Camb.  
Asst. Lectr.

*Spanish* [Sr. Lectr.  
Rees, J. W., M.A. Ox., B.A. Wales  
Collyer, A. E. Asst.

*Social Study*  
Cashmore, Hilda, M.A. Ox.  
Supervisor of Practical Work.

*Statistics*

Child, J. M., B.A. Camb., B.Sc.  
Lond.  
Drummond-Fraser Lectr.

*Technology*, v. *infra*

*Theology*, v. also Classics, Semi-  
tic Langs.  
Peake, A. S., M.A., D.D. Ox., D.D.  
Aberd., B.D. (Bibl. Crit.)  
Rylands Prof.  
Farquhar, J. N., M.A., D.Litt. Ox.,  
D.D. Aberd., B.D. (Comp  
Religion) Prof.

Lectrs. :

Mackintosh, R., B.D. Edin., M.A.,  
D.D. Glas. (Philos. of Rel.).  
Wardle, W. L., M.A., B.D. Camb.,  
D.D. Durh. (Bibl. Crit.).  
Parsons, R. G., M.A., D.D. Ox.  
(Bibl. Crit.).  
Cheetham, F. P., M.A. Camb.  
(Bibl. Crit.).  
Findlay, J. A., M.A. Camb. (Bibl.  
Crit.).  
Hirst, E. W., M.A. Lond., B.Sc.  
Ox. (Christian Ethics)

Lectrs in Hist. of Doctrine :

Brewis, J. T., B.A., B.D.  
Townsend, H., M.A. (R.U.I.), D.D.  
Lond.  
Grieve, A. J., M.A. Ox., D.D. Lond.  
Lectr. (Early Church Hist.).

*Veterinary*, v. *infra*, Bacteriology  
and Preventive Med.

*Zoology* [Beyer Prof.  
Dunkerly, J. S., B.Sc. Lond.,  
D.Sc., Ph.D. Glas.  
Thomson, J. Stuart, Ph.D. Berne,  
M.Sc. Sen. Lectr.

.....

Sen. Lectr. (Agric. Entom.).  
MacGill, Elsie I., M.Sc.  
Research Asst. (Entom.).  
Miles, H. W., M.Sc. Bris. (Agric.  
Ent) Lectr.  
1 Research Asst.

**Medicine** (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

*Anæsthetics* [Lectr

Hill, E F., M B., Ch.B., M.R.C.S.

*Bacteriology*, v. *infra*, Bact. and Prev. Med.

*Cancer Research* (Swindells Lab.)

White, C. P., M.A., M.D. Camb., F.R.C.S. Dir. of Lab. and (H.)

*Children, Diseases of* [Lectr.

Lapage, C. P., M.D., F.R.C.P.

*Children, Surgical Diseases of*

..... Lectr.

*Clinical Investigation*

Roberts, W. M., M.Sc., M.D.

Lectr. and Dir. of the Lab.

*Dermatology*

Lancashire, G. H., M.D. Bruss., M.R.C.S., L.R.C.P. Lectr.

Dyson, W., O.B.E., M.D. (also Hon. Spl. Lectr. in Path. of the Skin) Asst. Lectr.

*Ear, Throat, and Nose, Diseases of the*

Sewell, D L., M B., B.S. Lond (Ear) Lectr.

Wrigley, F. G., M.D. (Throat and Nose) Lectr

*Forensic M.*, v. Path.

*Hygiene*, v Bact. and Prev. Med

*Infectious Diseases*

Sutherland, D. S., M.D. Glas. (C.).

*Materia Med., Therap., and Pharmacy*

..... Leech Prof.  
Macdonald, A. D., M.A., M.B., Ch.B. Edin.

Reader (Mat Med and Therap.).

Grier, J., M.Sc.

Sen. Lectr. (Pharmaceutics).

Leech, E B., M.D. Camb., F.R.C.P.

Lectr. (Pharmacol. & Therap.)

Brindle, H., B.Sc. Lond., Ph.C.

Roberts, Ivy, M.Sc., Ph.C. (Pharm. and Pharm. Chem.)

Asst Lectr.

Rawsthorne, F., L.D.S. (Dent. M.M.) Lectr.

Duncan, Jeanette, B.Sc., Ph.C.

Demr.

Fowlds, W. L., B.Sc.

Demr.

Boardman, L. H., Ph.C.

Demr.

Bullock, Winifred M.

Demr.

*Medicine, Clinical*

Ramsbottom, A., M.D., D.P.H., F.R.C.P. Prof.

Tylecote, F. E., M.D., D.P.H., F.R.C.P. Lectr.

Melland, C. H., M.D. Lond., B.Sc., F.R.C.P. (also Lectr. in M. for Dent. Students) Lectr.

Core, D. E., M.D. (also in *Neurology*) Lectr.

Oliver, T. H., M.D. (also in *Systematic M.*) Lectr.

*Medicine, Systematic*, v. also Med, Clin.

Moore, F. Craven, M.D., M.Sc., F.R.C.P. Prof.

*Mental Diseases*

Blair, D., M.A., M.D. Glas. Lectr.  
Cormac, H. D., M.B., M.S. Madr., D.P.M. Lectr.

*Neurology*, v. Med., Clin.

*Obstetrics and Gynæcology*

Shaw, W. Fletcher, M.D. Prof. (C).

Dougal, D., M.D. Prof.

Lacey, F. H., M.D. Hon. Lectr. (C).

Bride, J. W., M.D. Lond. and Manc. Lectr.

Bailey, K. V., M.D. Asst. Lectr.  
Hunter, J. W. A., M.B., Ch.B.

Demr.

*Ophthalmology*

McNabb, H. H., M.D. Lectr. (C).  
Wharton, J., M.A., M.D. Camb.

(C).

Bride, T. M., M.D.

(C).

(H.) = Honorary, (C) = Clinical Lectr.

*Orthopædics*

Hon. Clin. Lectrs. :

Ollerenshaw, R., M.D., F.R.C.S.

Platt, H., M.B., M.S. Lond., M.D.,  
F.R.C.S.

*Pathology and Path. Anat*, v  
also Derm.

Dunn, J. S., M.A., M.D. Glas.

Procter Prof.

Anderton, W. B., M.B. Lond (P.  
and Forensic M)

Lectr. & Curator of Museum

Loveday, G. E., M.A., M.B., B.C.  
Camb. (Clin. P.) Lectr.

Susman, W., B.A., M.D. Ont.

Lectr.

Polson, C. F., M.B., Ch B. Birm.

Asst. Lectr.

Kershaw, J., L.D.S.

Demr.

Dyson, W., M.D.

Hon. S. Lectr (Skin P).

*Pharmacy, etc*, v. Mat Med

*Radiology*

Twining, E. W. Lectr

*Surgery, Clinical*, v. also  
Children's Diseases

Burgess, A. H., M.B., M.Sc.,  
F.R.C.S. Prof.

*Surgery, Operative*

Hughes, E. E., M.B., Ch M. Lectr.

Southam, A. H., M.A., M.D.,  
M.Ch. Ox, F.R.C.S. Lectr.

Roberts, C., M.B., B.S. Lond,  
F.R.C.S. Lectr and Asst.

Buckley, J. P., M.A., M.D. Camb,  
M.S. Lond, F.R.C.S. Lectr

Rayner, H. H., M.B., Ch B,  
F.R.C.S. Lectr.

*Surgery, Systematic*

Telford, E. D., M.A., B.C. Camb.,  
F.R.C.S. Prof

Hey, W. H., M.B., Ch.B., F.R.C.S.  
Lectr. and Asst.

*Surgical Pathology*

Ray, J. H., M.B., Ch.M., F.R.C.S.

Reader.

Wrigley, P. R., F.R.C.S. Lectr.

Wright, G., M.B., Ch.B. Edin.,  
F.R.C.S. Lectr.

*Therapeutics*, v. Mat. Med.

*Tuberculosis*

Sutherland, D. P., M.B., B.S.  
Lond. Hon. (C.).

*Vaccination* [Lectr.

Chisholm, Catherine, B.A., M.D.

*Venereal Diseases*

Macalpine, J. B., M.B., Ch B.,  
F.R.C.S. Instr. (C.).

Reid, W. J. S., M.A., M.D. Aberd.  
Instr. (C.).

Whitehead, Gordon, M.B., Ch.B.  
Instr. (C)

Wilson, A., F.R.C.S. Instr (C).  
Gibson, R., M.D., Ch B. Edin.

Instr (C)

Dyson, W., O.B.E., M.D. Instr  
Byrd, Elizabeth C., M.Sc., M.B.,  
Ch B Instr

*Dentistry*, v. also Med., Clin.

Lectrs. :

Hutchinson, A. C. W., B.D.S.,  
L.D.S. (Mechanics and Prosthetics)

Houghton, E., L.D.S. Eng (Operative Surgery).

Headridge, D., L.D.S. Eng (Anatomy and Physiology).

Buckley, J. P., M.A. Camb, M.D.,  
M.S. Lond, F.R.C.S. (Regional Surg).

Thompson, Prof F. C., B.Sc.,  
D.Met. (v. Met.)

Hughes, T. Martin, M.R.C.S.,  
L.R.C.P., L.D.S. Eng. (Orthodontics)

Simms, H., L.D.S. Eng., M.D.  
(Path. and Surg.).

Melland, C. H., M.D. Lond, B.Sc.,  
F.R.C.P. (Med).

Rawsthorne, F., L.D.S. (Mat.Med.).

Dunn, Prof J. S., M.A., M.D.  
Glas (v Path)(Bacteriology).

Gibson, S. K., L.D.S. (Histol.)  
Demr.

**Bacteriology and Preventive Medicine** (v. also Path.)

Martland, H. B., M.D. Tor.,  
M.R.C.S., L.R.C.P. (Prof. of  
B. and Dir. of P.H. Lab.)

Prof.

Downie, A. W., M.B., Ch.B. Aberd.  
Lectr.

Sidebotham, E. J., M.A., M.B.  
Camb. Hon. Lectr. in P.H.

Sellers, A., M.D. Edin., D.P.H.  
Hon. Research Asst.

Heap, H., M.Sc. (San. and Bact.  
Chem.) Lectr.

Coleman, G. S., D.Sc. (Eng.) Lond.,  
A.M.I.C.E., M.R.San.I. (San.  
Eng.) Lectr.

McGaughey, C. A., M.R.C.V.S.,  
D.V.S.M.

Asst. Lectr. (Bact.).

Gilmore, E. St. G., B.Sc., M.B.,  
Ch.B. Demr. in Bact.

Shortt, W. M., M.Sc.  
Demr. in Chem.

Bardsley, Doris A., M.Sc.  
Research Asst.

**Factory Hygiene**

Legge, Sir Thomas, M.A., M.D.  
Ox., D.P.H. Camb. Lectr.

**Public Health Administration**

Butterworth, J. J., M.D., D.P.H.  
Lectr. in Hygiene and A.

Brindley, A. E., M.D. Lond., B.Sc.,  
D.P.H. Lectr.

**Sanitary Engineering**, see under  
Technology**School Hygiene**

[Lectr.]  
Young, M., M.D. Edin., D.P.H.

**Vet. Hygiene**

Woods, W., F.R.C.V.S. Lectr.

**Vital Statistics**

Scholefield, E. H., M.B., Ch.B. Ox.,  
D.P.H. Lectr.

**Technology**

Jones, B. Mouat, D.S.O., M.A. Ox.,  
Principal of the College of  
Tech. and Dean of the Faculty.

**Architecture and Building**, v.  
*supra***Chemistry, Applied**

Kenner, J., Ph.D. Heidel., D.Sc.  
Lond., F.R.S.

Prof. of Technol. C.

Lectrs.

Howell, O. R., B.Sc., Ph.D. Wales,  
Ph.D. Camb.

McCulloch, Andrew, A.I.C. (Fuels).

Walker, T. K., M.Sc., Ph.D., F.I.C.  
(Fermentation).

Radcliffe, L. G., M.Sc. Tech., F.I.C.

Wood, J. K., D.Sc., F.I.C.

(Physical C.).

Cardwell, David, M.Sc., B.Com.

Spl. Lectr.

Asst. Lectrs.

Hibbert, Eva, M.Sc. Tech.

Craven, May B., M.Sc. Tech.

Hancock, A., M.Sc. Tech., F.I.C.

Chadwick, Marion, M.Sc. Tech.

Hepburn, G. G., B.Sc. St. And.,

Ph.D. Basle Spl. Lectr.

5 Demrs.

**Dyeing, Bleaching, and Printing  
and Paper Manuf.**

Scholefield, Fred, B.Sc. Leeds and  
Lond., M.Sc., F.I.C. Lectr.

Mason, F. A., M.A. Ox., Ph.D.  
Mun. Lectr. (Tinc. Chem.).

Bailey, F. W.  
Lectr. (Paper-making)

**Engineering, Electrical**

Walker, Miles, M.A. Camb., D.Sc.  
Lond. Prof.

Lectrs :

Langton, J. L., M.Sc.

Moore, A. E., M.Sc. Tech.

Clayton, A. E., D.Sc. (Eng.) Lond.,  
A.M.I.E.E.

Asst. Lectrs..

Glynne, A., M.A. Camb.

Freeman, G. F., M.Sc. (Eng.) Lond.

Hanney, E. A., M.Eng. Sheff.

1 Demr.

**Engineering, Mechanical**

Smith, Dempster, M.B.E., M.Sc.  
Tech. Prof.

Lectrs. :

Boswall, R. O., B.Sc.Eng. Lond.,  
M.Sc.Tech., A.F.R.Ae.S.  
Anderson, R. M., A.R.T.C. Glas.,  
M.Sc.Tech  
Threlfall, H., M Sc Tech,  
F.R.C.S.I.  
Ferguson, R. M., M.Sc.

Asst Lectrs

Brierley, J. C., M Sc Tech. (Eng.  
Drawing)  
Coe, N W, B Sc Tech

Asst. Lectrs. & Demrs .

Edmondson, A. R., M.Sc.  
Bevan, T., M.Sc.Tech  
Carrington, H, B Sc, M Sc.Tech.  
Oakden, J. C., M.A. Camb.

*Engineering, Sanitary*

Coleman, G. S., D.Sc. (Eng)  
Lond. Lectr  
Flood, G. M., B Sc. (Eng)  
Cape Town, A.M.I Struct E.,  
A M Inst M. and Cy.E,  
M.R San I. Lectr.  
Chadwick, A. S, M R.San I.  
Asst Lectr.

*Industrial Administration*

Bowie, J A, M A., D Litt. Aberd.  
Lectr.  
Garden, D J, M A., B Com.  
Aberd. Lectr.  
Yates, M. L, M Sc.Tech. Lectr.

*Languages (Modern)*

Grundy, W. H. R., B A. Lectr.

*Mathematics*

Prescott, J., M A., D Sc. Lectr.  
Bowman, F., M A. Camb. Lectr.

Asst. Lectrs. :

Lowry, H. V., B.A. Camb.  
Barratt, W S, A R C S.I., A I C.  
Tilsley, H., B.Sc (Eng.) Lond.

*Metallurgy and Assaying*

Rhead, E. L., M.Sc.Tech, F I C,  
M Am I M E Lectr.  
Mohn, G., M.Sc.Tech. Demr.

*Physics*

Adamson, A, M.Sc.Tech., A R.C.S.  
Lectr.  
Mercer, H N., M.A. Tor., Ph D.  
Lond. Asst. Lectr.  
Anderson, W., B Sc Glas ,,  
i Demr

*Printing and Photographic Tech.*

Gamble, C. W, O B.E., M Sc Tech  
Lectr.

*Textile Manufacture*

Morton, W E, M.Sc.Tech. Prof.  
Winterbottom, J, M Sc Tech  
(Spinning) Lectr.  
Hanton, W A, M Sc Tech (T.  
Engin) Lectr.  
Booth, J. H., B Com.  
Spl. Lectr. (Yarn and  
Cloth Markets).  
Dust, Emily R. (Design) Lectr.

Asst Lectrs :

Essam, J, B.Sc.Tech. (Tex. Ind.)  
Bennett, G. A, B.Sc.Tech. (Weav-  
ing)  
Riley, A, B.Sc., A.M.I.Mech.E.  
Shibey, H, M Sc Tech (Spinning)

**Extra-Mural Department**

Director of Extra-Mural Studies—  
H P. Turner, M A., LL.M.

ASSOCIATED COLLEGES

THE COLLEGE OF TECHNOLOGY originated in the Mechanics' Institution, founded in 1824, and developed between 1879 and 1912 under the direction of J. H. Reynolds as the Technical School (1883) and Municipal School of Technology (1901). In 1903 were completed, with the help of benefactions from the estate of Sir Joseph Whitworth, buildings covering 7300 sq. yards in the centre of the city and worth with their equipment £400,000. It became connected with the Univ. of Manchester in 1905 through the constitution of a Faculty of Technology, the greater part of the work of which

is conducted in the College, whose Principal is Dean of the Faculty. The work of the College includes advanced study and research in the subjects specified in the above list of Professors and Lecturers and hydraulic experimental work, motor-car engineering, and india-rubber technology.

### COLLEGES recognized for External Lectures in Theology :

BAPTIST COLLEGE, EGERTON HALL, HARTLEY PRIMITIVE METHODIST COLLEGE, MORAVIAN COLLEGE, Fairfield, UNITARIAN COLLEGE, and UNITED METHODIST COLLEGE at Manchester ; LANCASHIRE INDEPENDENT COLLEGE, Whalley Range ; WESLEYAN COLLEGE, Didsbury.

Recognized for instruction in Maths , Physics, Chem., and Biol. up to Intern. standard for B.Sc. and B.Sc.Tech. : the HARRIS INSTITUTE, Preston.

For third year of B.Sc.Tech course in Mining : the CAMBORNE SCHOOL OF METALLIFEROUS MINING.

## GENERAL INFORMATION

Owens College, named after a Manchester merchant who bequeathed £96,000 for its foundation, was opened in 1851. The Manchester School of Medicine was united with it in 1872. The Charter of 1880 by which the Victoria Univ. was founded established a federal constitution and made Owens a constituent Coll. of the Univ. Subsequently Univ. Coll., Liverpool, and Yorkshire Coll., Leeds, were admitted as constituent Colls. A new Charter was issued on July 15, 1903, reconstituting the Univ. under the name of the Vict Univ. of Manchester and freeing it from liability to admit or remain in association with any Coll. other than Owens, and on June 24, 1904, the Act for the incorporation of Owens Coll. with the Univ. was passed. The Univ. Press was established in 1902.

In 1905, on the establishment of the Faculty of Technology, the work of Univ. standard at the Municipal School (now College) of Tech. was included in the Univ.

Most of the buildings, arranged in two quadrangles, and erected from time to time during the past 50 years, are situated in the city. The Department of Bacteriology and Preventive Medicine is  $\frac{1}{2}$  mile distant, adjoining principal hospitals. The athletic ground (30 acres) is at Fallowfield, about  $1\frac{1}{2}$  miles distant.

**LIBRARIES.** The main (Christie) library (over 220,000) includes the private collections of Profs. Freeman and Stanley Jevons and Dr. Christie. Scientific periodicals are taken in by the Univ. in co-operation with the Manchester Literary and Philosophical Society, so that between them all the most important are available for both. The Medical Society's and the Radford Library (55,000) are housed in the Medical School, and are available for students. The John Rylands (310,000) includes the Althorp Library and the Crawford collection of MSS. It contains one of the most important collections of early printed books in existence. The ancient Chetham Library (100,000) has valuable mediæval MSS. and printed books of seventeenth and eighteenth centuries and a collection of volumes dealing with local history. The Municipal Reference Library (200,000) is valuable for more recent books and periodicals, and in connexion with it a Technical and Science Library (40,000) has recently been formed.

**LABORATORIES, ETC.** Ample equipment for advanced study and research

in all departments; special provision for Electro-Technics, Economic Zoology (including Agric. Entom.) and Botany, Radio-activity, Ionization of Gases, Colloids, and Cancer. The Manchester *Museum*, forming part of the Univ. buildings, and containing among other special depts. the Flinders Petrie Egyptol. Collection, is utilized for Univ. teaching in Zool., Bot., and Geol.; it is also used for systematic instruction of Elem. school children. Available for clinical instruction are 4 general *Hospitals*, 1 Dental and 7 other special hospis., including the Christie Cancer Pavilion. The Howard Estate *Observatory* in the Peak District is for investigation of the Upper Atmosphere.

**FACULTIES.** (1) Arts [including School of Architecture]; (2) Science; (3) Law; (4) Medicine [including Departments of Dental Science, Pharmaceutics, and Bacteriology and Preventive Medicine and Pub. Health]; (5) Music; (6) Commerce and Administration [including Social Study]; (7) Theology; (8) Technology (provided by the Municipal College of Technology); (9) Education [training for work in Secondary, Elementary, and Day Continuation Schools, in Schools for the Deaf, and with Young Children]. Deans of Faculties: (1) Prof. Stocks (Philosophy); (2) Prof. Thompson (Metallurgy); (3) Prof. Eastwood; (4) Prof. Raper; (5) Dr. Keighley; (6) Prof. Daniels; (7) Rev. H. Townsend; (8) Principal Mouat-Jones; (9) Prof. Bompas Smith.

**MATRICULATION.** See Appendix XX.

**INDIAN STUDENTS.** Adviser, J. K. Wood, D.Sc. Applications from Indian students for registration should be received, with references as to character and educational qualifications, as soon as possible after May 1 and not later than July 20.

**DEGREE COURSES.** 3 yrs (graduates of other approved Univs., 2 yrs.)—B.A., B.Sc., LL.B., Mus.B., B.A. (Com.), B.A. (Admin.), B.D. (after Intern. courses in Arts), B.Sc. Tech.; 5 yrs.—B.A. (Hons. in Archit.), B.D.S.; 6 yrs.—M.B., Ch.B. The B.Com. course can be completed by attendance on evening lectures.

Honours students of modern foreign languages may be permitted to count attendance on approved courses during one term at a foreign Univ. as equivalent to attendance at Manc.

Minimum attendance in the Univ. for graduation—3 yrs. Minimum attendance for Bachelorship in 2 Faculties—5 yrs.

**HIGHER DEGREES.** Open to Bachelors of 1 yr. standing—M.A., M.Sc. (2 yrs. if graduates of other Faculties), Ch.M., M.D., M.D.S., M.A. (Com.), M.A. (Admin.), M.Sc. Tech.; 2 yrs.—LL.M., M.Ed.; 4 yrs.—D.Sc., LL.D., Mus.D., D.D. Open to Masters or Doctors of Philosophy of the Univ. only: Litt.D.

Open to graduates of other approved Univs. through research in Manc. during 2 (non-graduates 3) yrs.—M.A., M.Sc., LL.M., M.A. (Com.), M.A. (Admin.), M.Sc. Tech., M.Ed. (open only to graduates). Graduates of other approved Univs. of 4 yrs. (D.D. 6 yrs.) standing who have obtained the degree of Master or one substantially equivalent thereto and spent 2 yrs. in study or research in Manc. may qualify for the D.Sc., LL.D., D.D.

The Ph.D. differs from the Litt.D. and D.Sc. in requiring a definite course of study, and is of a lower standard, though higher than the M.A., M.Sc., and M.Sc. Tech. (v. p. 18).

**DIPLOMAS.** Geog. (grads.), 1 yr. course; D.V.S.M., open to M.R.C.V.S. only, 12 mos.; Psych. Med. 1 yr., including 2 terms at the Univ.; D.P.H. 1 yr.; Teacher's (grads.), 1 yr.; L.D.S., 4 yrs.; Dp. Bact. (1 yr. post-grad.); Social Study (2 yrs.; approved grads. and holders of Certif. in Pub. Admin., 1 yr.).

**CERTIFICATES.** Engin., 3 yrs.' course; Applied Chem., 3 yrs.; Archit., 3 yrs.; Mining; Factory or School Hygiene (subsequent to obtaining D.P.H.); Higher Commercial, 2 yrs. (grads. 1 yr.); Public Administration, 2 yrs., Theol., 3 yrs.; Biblical Knowledge, 1 yr.; Tech. (Assoc. Coll. Tech.), 3 yrs.; Tech. (Distinction), 1 yr. after Cert. in Tech.; Photog. Tech., 2 yrs. Candidates for certificates are required, before entering on the course, to pass or obtain exemption from an entrance examn.

Certif. in Mining and the B.Sc. Tech. in Mining are accepted by Govt. in lieu of 2 out of 5 yrs.' practical experience for Mine Manager's Certif.

#### SPECIAL COURSES on Tuberculosis for Med. and Vet. practrs.

**SCHOLARSHIPS, ETC., FOR GRADUATES.** A considerable number are offered every year by the Univ., most of them reserved for its own graduates, but some—in Anatomy, £150; Chemistry, £100, Economics, £100 and £90; Engineering, two of £200 each; Diseases of Children, £100, History, £50; Physics, £175; Physiology, £90; Prev. Med., £300; Mech. and San. Engin. or Bact. and Preventive Medicine, £150—are open to foreign students; others—in Cotton Industry, £80; History, £50—are open to British subjects who have graduated at other Univs. Honorary Research Fellowships and Research Studentships, entitling the holders to the use of facilities for research either free or at greatly reduced fees, are also awarded.

**FEES.** Matricn., £2. Tuition, per session, including Students' Union and Athletic Union fees, for B.A. course, 30 gs. (Hons. in Archit., first 3 yrs. 41 gs. per session, 4th and 5th yrs. 28 gs. per session); B.Sc., 30 to 45 gs.; M.B., Ch.B. (5 sessions), 150 gs., *plus* Hospl. fees, 77 gs.; LL.B. (3 sessions), 40 gs.; B.D., about 15 gs. (*plus* Registration fee of 3 gs. per session); B.A. (Com.), B.A. (Admin.), 20 gs. to 24 gs.; Mus. B., about 20 gs.; B.D.S., 94½ gs., *plus* Hospl. fees, 175 gs.; L.D.S., 84½ gs., *plus* Hospl. fees, 135 gs.; B.Sc. Tech., £40-£60; Teacher's Dipl., £35. Examn. fees: Med., 32 gs., others (Interm. and Final) for first degrees about 6 gs. (B.Sc., 4 to 5 gs.). Graduation fees, 8 gs. (Doctorate 5 gs., except M.D., 9 gs., Mus. D., 8 gs., Ph.D., £5).

Research fees, 7 to 10 gs. per session in Arts, Commerce, and Law; Educn., 4 gs.; higher fees for other science students.

**HOSTELS.** For men: Hulme Hall (Warden), £60 to £100 (*for 25 weeks*); Dalton Hall (Principal), £108 (*for 31 weeks*); St. Anselm's Hall (Warden), £72 (*for 30 weeks*), Lancashire Independent College (Principal), £81 (*full Univ. terms*); Unitarian College (Principal), £90 (*full Univ. terms*). For women (122): Ashburne Hall (Warden), 64 to 70 gs.; Lees Hall (Warden) (*both under Ashburne Hall Delegacy*), Langdale Hall (Warden), chiefly for women training students, whose fees are £36, private students £70, Ellis Llwyd Jones Hall (Warden), special hostel for students in training as teachers of the deaf, £70, St. Gabriel's Hall (Warden) (*for Catholic women students*), £55 to £65.

All PAST AND PRESENT MEMBERS of the Univ. are eligible for membership of the "Old Owensian Assocn.," which publishes periodically a register of members with occupations and addresses and a *Journal* (quarterly).

**ADULT EDUCATION.** The Committee for the organization of the Extra-mural work of the Univ. and the Joint Committee for Tutorial Classes are responsible for the provision of facilities for Adult Education at the Univ. itself, and at other Centres. Public Lectures, Univ. Extension Courses, Tutorial Classes for Workpeople, and other Classes for adult students are arranged, and Tutors and Lecturers are appointed.



**PUBLICATIONS.** (1) *Periodical: Calendar* (Sept.), 3s.; *Prospectus of Advanced Studies*; *Examn. Papers*, 9d. to 1s. 6d. a set, by Faculties. *The French Quarterly*, 3s.; *Bulletin of John Rylands Library*; *Technology* (pub. at Coll. of Tech.); *Journal of Manc. Egyptian and Orient. Soc.*; Pubns. of Chetham Society, Manchester, Pubns. of Brit. Soc. of Franciscan Studies. Students' Pubns.: *The Serpent* (magazine), *The Circle* (Literary), *Science Fed. Journal*, *Medical School Gazette*. Departmental Prospectuses (April-May). (2) *The Victoria University of Manchester*; a short historical and descriptive account. The Univ. Press, 1926.

**HISTORIES.** "The Owens College its Foundation and Growth, and Connexion with the Victoria Univ.," by Joseph Thompson. Manchester, J. E. Cornish, 1886. "The Owens College," by P. J. Cornish. Manchester, J. E. Cornish, 1900.

## THE YEAR 1927-28

**GRANTS.** Lancashire C C. increased to £5600; Stockport increased to £400. New Grants: Burnley, £250; Rochdale, £150; Warrington, £100.

**BENEFACTIONS.** Endowment of Lectureship in Prac. Banking and of Fellowship in Econs and Commerce by Sir D Drummond Fraser Bequest of £6000 for Zimmern Travelling Fellowships Other bequests, £1965 and £1000 for scholarships, and gifts, £250, £200, and £100 for prizes.

**DEVELOPMENTS** Extension of Museum (Archæol. and Ethnol) opened by Mrs Jesse Haworth, widow of donor. Extension of Public Health Laboratory to accommodate Dept of Pathology New Course (Maths, Phys, and Biology) approved for Hons Sch. of General Science.

**DEATHS.** Prof. Sir F. du Pre Oldfield; S R. Wilson; W. C. Popplewell; G. G. Hepburn

**RESIGNATIONS.** Prof R Robinson, on appt. to Chair of Organic Chem. in Univ. Coll, London; Dr H L. Roth, on appt. as Prof. of Philosophy in Univ. of Jerusalem, R. A. Wardle, on appt as Prof of Zoology in Univ of Manitoba; Dr. L. S. Palmer, on appt as Prof. of Physics in Univ. Coll, Hull.

**RETIREMENTS.** Assoc. Prof E. Sandeman (Engineering); A G. Little (Palæography), S Chaffers (Bursar).

**INTERCHANGE OF TEACHERS, ETC.** M. E. Halevy (from France) and Prof. D. R. Fox (from U S A.) delivered public lectures; former also lectured in Arts Dept Prof Calder absent in Summer Term on survey of anc. monuments in Asia Minor. Prof. Bragg lectured at Massachusetts Institute of Technology. Prof. Conway lectured in Univs. of Australia and New Zealand.

**HONORARY DEGREES.** LL.D.—Rt. Hon. Sir Alfred M. Mond, Baron Melchett of Landford. Litt.D.—R. D. Hicks, Prof. J. G. Robertson. D.Sc.—R. Willstatter, Dr. C. T. R. Wilson.

**STUDENTS.** Full-time, 2090; part-time, 391. These numbers include 502 graduates

**DEGREES.** Litt.D., 1; D.Sc., 3; Mus D., 1; M.D., 5; Ph.D., 11; M.A., 13; M.Sc., 33; LL.M., 1; M.A. (Com), 4, M.Ed., 3; M.Sc.Tech., 16; B.A., 142; B.Sc., 125; LL.B., 11, B.A. (Com), 37; B.A. (Admin.), 4; B.D., 7; M.B., Ch.B., 35; B.D.S., 2; B.Sc.Tech., 48.

# UNIVERSITY OF OXFORD

CHANCELLOR—Right Hon EDWARD, VISCOUNT GREY, D C L , Hon.  
Fellow of Balliol College.

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Hon. D.C L. Merton and Wadham Colleges

VICE-CHANCELLOR—F. W. PEMBER, D C L , Warden of All Souls.

PROCTORS—C H. WILKINSON, M A. Worcester , S CASSON, M A New  
College

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LORD HUGH R. H. CECIL, M A., Hon D C.L. Hertford ; Sir CHAS  
W. C OMAN, M A , Hon D C L All Souls.

ASSESSOR OF THE CHANCELLOR'S COURT—A E. W. HAZEL, B C L.,  
M.A., Principal of Jesus.

PUBLIC ORATOR—A. B. POYNTON, M A. Univ.

BODLEY'S LIBRARIAN—A. E COWLEY, M A , D Litt. Magdalen

KEEPER OF THE ARCHIVES—S GIBSON, M A Non-C

REGISTRAR—E. S CRAIG, M A. Magdalen

SECRETARY OF FACULTIES—H. M MARGOLIOUTH, M.A. Oriel.

ASSISTANT REGISTRAR—S. CALDWELL, M.A Wadham.

## COLLEGES

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BALLIOL           ,,	<i>Master</i>	A. D. LINDSAY, C.B.E., M.A.
BRASENOSE       ,,	<i>Principal</i>	C. H SAMPSON, M.A
CHRIST CHURCH	<i>Dean</i>	H. J. WHITE, D.D.
CORPUS CHRISTI COLLEGE	<i>President</i>	P. S. ALLEN, M A , D Litt.
EXETER           ,,	<i>Rector</i>	R R MARETT, M A., D Sc.
HERTFORD       ,,	<i>Principal</i>	SIR WALTER R. BUCHANAN- RIDDELL, Bart., M.A.
JESUS           ,,	,,	A. E. W. HAZEL, B.C.L., M A.
LINCOLN       ,,	<i>Rector</i>	J. A R. MUNRO, M.A.
MAGDALEN       ,,	<i>President</i>	Prof. G S GORDON, M A
MERTON       ,,	<i>Warden</i>	T. BOWMAN, M.A.
NEW           ,,	,,	Rt. Hon. H. A. L. FISHER, M.A.
ORIEL COLLEGE	<i>Provost</i>	L. R. PHELPS, M A., Hon. D.C.L.

PEMBROKE COLLEGE	<i>Master</i>	F. HOMES DUDDEN, D.D.
QUEEN'S        ,,	<i>Provost</i>	J. R. MAGRATH, D.D.
ST. JOHN'S     ,,	<i>President</i>	H. A. JAMES, C.H., D.D.
TRINITY        ,,	,,	H. E. D. BLAKISTON, D.D.
UNIVERSITY    ,,	<i>Master</i>	Sir MICHAEL E. SADLER, K.C.S.I., C.B., M.A.
WADHAM        ,,	<i>Warden</i>	J. F. STENNING, M.A.
WORCESTER     ,,	<i>Provost</i>	F. J. LYS, M.A.
ST. EDMUND HALL	<i>Principal</i>	G. B. CRONSHAW, M.A.
KEBLE COLLEGE (New Foundation)	<i>Warden</i>	B. J. KIDD, D.D.

*Censor of Non-Collegiate Students*—J. B. BAKER, M.A.

## PRIVATE HOSTELS

CAMPION HALL	<i>Licensed Master</i>	Rev E. G. O. VIGNAUX, M.A.
ST. BENET'S HALL	,,        ,,	Rev. P. J. McCANN, M.A.

## RECOGNIZED SOCIETIES OF WOMEN STUDENTS

LADY MARGARET HALL	<i>Principal</i>	Miss L. GRIER, M.A.
SOMERVILLE COLLEGE	,,	Miss S. M. FRY, M.A.
ST. HUGH'S COLLEGE	,,	Miss B. E. GWYER, M.A.
ST. HILDA'S COLLEGE	,,	Miss J. DE L. MANN, M.A.
SOCIETY OF OXFORD HOME STUDENTS	,,	Miss GRACE E. HADOW, M.A.

## PROFESSORS, READERS, LECTURERS, DEMONSTRATORS, ETC.

<i>Agriculture</i> , v. p. 199.	<i>Anthropology, Physical</i> [Reader.
<i>Anatomy</i> , v. also Zoology, Med.	Buxton, L. H. D., M.A. Exe.
Thomson, A., M.A. Ch. Ch.	<i>Anthropology, Social</i> [Reader.
Lee's Prof	Marett, R. R., M.A., D.Sc. Exe.
Dodds-Parker, A. P., B.M., M.A.	Farquhar, J. N., M.A., D.Litt.
Magd. (Applied A.) Reader	Ch. Ch.
Odgers, P. N. B., M.Ch., M.A.	Wilde Lectr. in Nat. and
Linc. Demr.	Comp. Relig.
Carleton, Mrs., M.A. Demr.	<i>Archæology</i> , v. also Orient
Blackwood, Miss B. M., B.Sc.,	Langs. and Papyr.
M.A. Som. Demr.	Beazley, J. D., M.A. Linc. (Classi-
Wagstaffe, W. W., B.M., M.A.	cal A. and Art)
New Coll. Dept Demr.	Linc. & Mert. Prof.
<i>Anglo-Saxon</i>	Casson, S., M.A. New (Classical
Tolkien, J. R. R., M.A. Pemb	A.) Reader.

- Art*  
 Gleadowe, R. M. Y., M A. New (Fine Art) Slade Prof.  
 Carline, S. W. (Drawing) Ruskin Master.
- Assyriology*, v. Oriental Languages  
*Astronomy* [Savilian Prof  
 Turner, H. H., M A, D Sc New  
 Knox-Shaw, H., M A, D Sc Trin  
 Radcliffe Observer.  
 Bellamy, F. A, Hon M A  
 First Asst  
 Bellamy, Ethel F Asst  
 Fotheringham, J K, M A, D. Litt  
 Magd  
 Reader in Ancient Ast.  
 and Chronology.  
 Hughes, J. S., M A New Coll  
 Seismol Asst
- Bio-Chemistry* [Whitley Prof  
 Peters, R A, M A Trin  
 Whitley, E., M A Trin Demr  
 Peskett, G L, M A New Coll  
 Demr  
 Carter, C W, B M, M A Queen's  
 Demr
- Botany*, v. also Rural Econ  
 Tansley, A G, M A Camb  
 Sherardian Prof  
 Church, A H, M A Jes Demr  
 Wilkins, W H, M A Keb Demr.  
 James, E O Demr  
 Druce, G. C., M A, D Sc. Magd.  
 Herbarium Curator.
- Celtic*  
 Fraser, J, M A Jes. Jesus Prof
- Chemistry* [Waynflete Prof.  
 Perkin, W H, M A Magd.  
 Sidgwick, N. V., M.A. Linc  
 Reader  
 Chapman, D. L, M A. Jes.  
 (Phys. Chem) Lectr.  
 Russell, A S., M.A. Ch Ch.  
 (Inorg. C) Lectr.  
 Hinshelwood, C N., M A. Trin.  
 (Chem Dyn) Lectr.  
 Marsh, J. E, M.A Mert.  
 Dept Demr.
- Hope, E., M.A Magd. Demr.  
 Hammick, D. Ll, M.A Ornel  
 Demr.  
 Plant, S. G. P., B.Sc., M.A.,  
 D Phil Magd Demr  
 Taylor, T. W J, M A B N C  
 Demr  
 Gulland, J M, M A Ball Demr.  
 Baker, W Demr  
 Soddy, F, M A. Exe. Lee's Prof.  
 Lambert, B, M A Mert  
 Aldrichian Demr.  
 Walden, A. F, M.A. New College  
 Demr  
 Hartley, E G J, M.A Ch Ch  
 Demr  
 Farrow, Miss E M O, M A St  
 Hugh's Dept Demr  
 Brewer, F M, B Sc, M A Linc  
 Dept Demr  
 Woodward, L A, B A Linc  
 Dept Demr
- Classics*, v also Arch  
 Murray, Gilbert, M A, D Litt  
 Ch Ch (Greek) Reg. Prof  
 Tod, M. N, M A Or (Greek Epi-  
 graphy) Reader.  
 Clark, A C, M A C C C (Latin)  
 Corpus Prof  
 Lobel, E, M A Qu  
 Research Student (Gk. Lit.)
- Crystallography, Chem*  
 Barker, T. V, M A, D Sc B N.C.  
 Reader.
- Diplomatic*  
 Galbraith, V H, M A Ball  
 Reader.
- Divinity*, v Theology
- Economics*, v also Pol Econ.  
 Cole, G. D. H., M A Umv.  
 Reader.
- Education* [Dir of Training.  
 Smith, G, M A Trin  
 Keatinge, M. W., M.A., D.Sc. Exe.  
 Reader  
 Icely, H. E. M., M.A. B.N.C.  
 Asst. Lectr. and Tutor.

Talbot, Elfrida M., M.A. St. Hu  
Lectr. and Tutor to  
Women Students, and  
Principal of the  
Women's Hostel.

*Egyptology*, v *Orient*.

*Embryology*, v *Zool*.

*Engineering Science*, v also *Sur-  
veying*

Jenkin, C. F., C B E, M A B N C.  
Prof.

Binnie, A M, M A Balliol Demr

Belfield, V. B A Camb

Dept Demr

*English*, v also *Anglo-Saxon*,  
*Poetry*

Gordon, G S, M A. Mert

Merton Prof (E Lit)

Wyld, H C. K., B Litt, M A.

Mert (E Lang and Lit)

Merton Prof

Smith, D Nichol, M A. Mert

Prof & Goldsmiths' Reader

Simpson, P., M A. Or

Reader in Eng Text Crit

Onions, C T, M A, Hon D Litt

Magd Reader in Eng Phil

Wilson, F. P., B Litt, M A Linc

Reader in Eng Lit.

Brett-Smith, H F B, M A. C C C.

Reader in Eng Lit.

Darbishire, Miss H, M A. Som

Lectr

*Forestry*, v also *Surv*, *Rural Ec*

Troup, R. S, M A, D Sc St J

(Director, Imp F. Inst) Prof

..... Lectr. (Tropical Forest  
Botany).

Williamson, H S, M A Ch Ch.

Lectr \* (F Law)

Bourne, R, M A Trin Demr

Hiley, W E, M A Qu

Demr \* (Economics)

Steven, H. M, Hon M A (Ph D

Edin) Lectr \* (Silviculture)

Chalk, L., M.A Univ

Demr.\* (Structure, etc.  
of Wood).

Day, W. R., B.Sc., B.A. Exe.

Demr \* (Mycol. and Path.  
of Trees).

Burt-Davy, J, Hon M A (Ph.D.  
Camb)

Demr \* (System Botany)

Chrystal, R N, Hon M A. (B Sc.

Edin) Demr \* (Entomology)

Spokes, P. S, B Sc, M A. Qu  
Secy.

*French*

Rudler, G, Dr ès L Paris (Fr  
Lit), M.A All S Foch Prof.

Berthon, H E, M.V O, M A  
Wadh Reader.

Pope, Miss M K, M A Som  
Reader

Ewert, A, M A St J Lectr.

Vinaver, E, B Litt, M A. Linc  
Lectr

*Genetics*, v *Zool*.

*Geography*, v also *Surv*

Beckit, H O, M A Ball

Reader and Dir. of the  
School

Cossar, J., M A Exe. Lectr

MacMunn, Nora E., M A.  
Soc O H S

Lectr (Regional G)

Baker, J. N L., B.Litt., M A. Jes.  
Lectr

Tutors.

Kendrew, W. G, M A Non-Coll.

Kirkaldy, J W, M.A Som

Buxton, L H D, M A Exeter  
(v *Anthrop*)

*Geology*

Sollas, W. J, M A Univ. Prof.

Douglas, J. A., M.A., D Sc. Keb.  
Demr.

Bayzand, C. J, M.A. Non-Coll.  
Demr.

Sandford, K. S, M A., D Phil.  
Univ. Demr.

*Geometry*

[Savilian Prof.  
Hardy, G. H., M.A New Coll.

*German*

[Taylor Prof.  
Fiedler, H. G., M V O, M A. Qu.  
(G Lang. and Lit)

Montgomery, M., B.Litt., M.A.  
Linc Reader  
Bostock, J K, B Litt, M A  
Wadham Lectr

*Greek, Byzantine and Modern,  
Lang and Lit*

Dawkins, R M., M.A Exe  
Bywater & Sotheby Prof

*Greek and Latin Lit*

Lectrs

Bailey, C, M A Ball  
Hall, F. W., M A St J  
Powell, J U, M A. St J  
Barber, E A, M.A Exe

*Greek Lit*

Poynton, A B, M A Univ Lectr

*Hebrew, v. Orient.**History, American*

McElroy, R M., M A Queen's  
Harold Vyvyan Harms-  
worth Prof.

*History, Ancient, v also Archæol*

Anderson, J. G. C, M A Bras  
Camden Prof

Myres, J L, M A New Coll  
Wykeham Prof

Stevenson, G H, M A Univ  
Lectr

Collingwood, R G, M A Pemb  
Lectr

Last, H M, M A St J  
Lectr in Rom Hist.

Parker, H M D, M A Magd  
Lectr in Rom. Hist

*History, Colonial*

Coupland, R, M A All S  
Beit Prof.

Morrell, W. P., D Phil Ball.  
Beit Lectr

*History, Eccl., v Theology**History, Econ., v. Pol. Econ.**History, English*

Pollard, A F, M A. All S  
Ford's Lectr. (1928).

*History, Indian*

Lovett, Sir H. Verney, K C S I.,  
M A Worc. Reader.

*History, Military, v. Milit.**History, Modern, v. also Dipl.*

Powicke, F M, M A Or, Litt D.  
Liv, F B A Reg Prof

Oman, Sir Charles W. C, K.B.E.,  
M A, Hon D C.L All S.

Chichele Prof.

Lectrs

Cruttwell, C R M F, M A Hert  
Ady, Miss C M, M A St Hugh's  
Clark, G N, M A. Or.

Gretton, R H, M A Keb  
Jamison, Miss E M, M A Marg.  
H.

Poole, A L., M.A. St. J  
Weaver, J R H., M A Trin.

Legg, L G W, M A New  
Feiling, K G, M A Ch Ch

Edwards, J G, M A Jesus  
Woodward, E L, M A New Coll

Bell, K N, M A Ball  
Leys, K K M, M A Univ

Hodgkin, R H, M A Queen's

*Italian*

Foligno, C, M.A Magd.  
Serena Prof

Vincent, E R P., M A Ch. Ch.  
Lectr.

*Law, v infra**Literature, Modern European*

Flexner, Dr Abraham  
Taylorian Annual Lectr., 1928.

*Logic* [Wykeham Prof.]

Joachim, H H, M A New Coll.

*Mathematics, Pure*

Dixon, A. L., M A. Magd.  
Waynflete Prof

*Mathematics* [Rouse Ball Prof.]

Milne, E A, M A Trin  
Chaundy, T. W, M A Ch. Ch.

Lectr.

Nicholson, J. W., M A Ball. Lectr.

*Medicine, v. infra*

*Meteorology*, v. Philosophy Expl.

*Military History*

Swinton, Maj.-Gen Sir Ernest D.,  
K.B.E., C.B., D S O., M A.,  
All S Chichele Prof.

*Mineralogy*, v. also Crystal.

Bowman, H L., M A, D Sc  
Magd. Waynflete Prof.

Barker, T. V. (v Crystal) Reader.

Spiller, R. C., B.A., Non-C Demr.

*Music* [Prof.]

Allen, Sir H P, M A, D.Mus. New

Stewart, H C., M.A, D Mus  
Magd

Choragus (Asst to Prof)

*Oriental Languages, v infra*

*Palæography*

Lowe, E A, M.A, C C C Reader

*Papyrology*

Hunt, A S, M A, D Litt Qu Prof

*Philology, Comparative* [Prof.]

Braunholtz, G E K., M.A. Worc

*Philosophy*

Carritt, E F, M A. Univ Lectr

Joseph, H W B, M A New

Lectr

Collingwood, R G, M A. Pemb.

Lectr

Ross, W D, M A Ox Lectr

*Philosophy, Expl.* [Lee's Prof.]

Lindemann, F A, M A Ch Ch.

Griffith, I. O, M.A. B N C. Demr

Dobson, G M B, M A, D Sc Linc

Reader (*Meteorology*) & Demr.

*Philosophy, Mental, v also*

Logic

Brown, Wm, D M Ch Ch

Wilde Reader.

*Philosophy, Moral, & Metaphys*

Smith, J. A, M.A. Magd.

Waynflete Prof

Myers, C. S, C.B.E., Sc D, M D

Herbert Spencer Lectr. (1928).

*Philos., Moral*

Prichard, H A, M A C C C

White's Prof.

*Philos., Natural*

Love, A. E. H., M.A., D.Sc Qu.

Sedleian Prof.

*Physics*

Townsend, J. S E, M A New

Wykeham Prof.

Lattey, R. T, B.Sc, M A. Trin

Demr.

Gill, E. W. B, B Sc., M.A. Mert

Demr.

Morrell, J H, M.A. Magd Demr.

Biggs, H F, M A Trin. Demr.

McCallum, S. P., M.A., D Phil.

Demr.

Huxley, L G H, B A New Coll

Dept Demr

*Physiology, v also Medicine*

Sherrington, Sir Charles S, O.M,

G.B.E., M A, Hon. D Sc.

Magd. Waynflete Prof.

Douglas, C G, B Sc, D M St J

Demr

Liddell, E G T, B M, M A.

Trin Demr

Carleton, H M, B Sc, M A.,

D Phil New Coll Demr

Cooper, Sybil (Ph D Camb), St

Hild Dept Demr

Creed, R. S, B.M, M A New Coll

Dept Demr

*Poetry* [Prof.]

de Sélincourt, E, M A, D Litt

*Political Econ*

Macgregor, D H., M A. All S.

Drummond Prof.

Lipson, E, M A, New Coll (Ec.

Hist) Reader.

*Political Theory and Institns*

Adams, W. G. S, M.A. All S.

Gladstone Prof

*Religion, v. also Theology*

Farquhar, J N, M A, D.Litt

Ch Ch

Wilde Lectr. (Nat. & Comp. R.).

*Romance Lang* [Prof.]

Waters, E. G. R., M.A. Trin.

*Rural Economy, v. infra*

*Russian* [Prof. and Reader  
Forbes, N., M A. Ball.

*Spanish*

de Madariaga, S, M A Exe

King Alfonso Prof

Kolkhorst, G A, M A Exe Lectr

*Surveying* (for Engin, Rural Ec,  
Forestry, Geog Students, and  
Tropical Administrative Ser-  
vices probationers)

Tandy, Lt-Col M O C, D S O,  
O B E. Instr

*Thermodynamics* [Reader.

Egerton, A. C G., M A Ball

*Zoology and Comp Anat.*, v. also  
Rural Econ.

Goodrich, E. S, M.A., D.Sc. Mert  
Linacre Prof

Poulton, E B, M A, D Sc Jes  
Hope Prof

Demrs

de Beer, G R, B Sc, M A Mert.

Jenkinson Lectr. in

Comp and Experi-  
mental *Embryology*

Elton, C S, B.A New Coll.

Tucker, B W, B A Magd

Baker, J. R, B A. New Coll

**Law**

*Civil* [Reg. Prof.

De Zulueta, F., D C.L All S.

*Criminal, and Evidence*

Stallybrass, W. T S, M.A. B N C.  
Reader.

*English*

Holdsworth, W S, K C, D C L.  
All S Vinerian Prof.

Hazel, A. E. W, C B E, B C L,  
M A. Jes. All Souls Reader.

*Equity*

Hanbury, H. G, B C L., M A  
Linc. Lectr.

*Indian*

Woodroffe, Sir John G, B C L,  
M.A. Univ. Reader.

*Internat, and Diplomacy*

Brierly, J. L, O B.E, B C L,  
M A All S. Chichele Prof

Miles, Sir John C, B.C.L, M A.  
Mert

Lectr in Comp Legal Hist.

*Internat (Private)*

Cheshire, G C, D C L, M A Exe  
Lectr.

*Jurisprudence* [Corpus Prof

Ashburner, W, D C L Univ

Allen, C K., M A Univ  
Lectr. in Theor. Juris.

*Roman* [All Souls Reader

Jolowicz, H F, M A

*Roman-Dutch* [Rhodes Prof.

Lee, R W, D C L Ball

**Medicine** (for subjects of the first  
2 yrs —Anat, etc, v *supra*)

*Anatomy, Morbid*

Gibson, A G, D M Ch Ch  
Reader.

*Clinical Physiology*

Priestley, J G, D M Ch Ch  
Reader.

*Medicine*

Buzzard, Sir E. Farquhar,  
K C V.O, D M. Magd.

Reg Prof.

Mallam, E, D M Magd.

Litchfield Lectr.

*Ophthalmology*

Adams, P E H, B M, M A Exe.  
Margaret Ogilvie's Reader.

*Pathology*, v. also Anat [Prof

Dreyer, G, C B.E, M.A. Linc.

Walker, E W A, D Sc, D M  
Univ, *Dean of Med Sch*

Reader.

Vollum, R L, D Phil Linc

Demr

*Pharmacology* [Prof & Reader.

Gunn, J A, M A Ball.

MacKeith, M. H, D.M. Magd.

Demr.

Franklin, K. J., B.M, M.A. Or.

Demr.



*Surgery* [Litchfield Lectr.  
Bevers, E. C., B.M., M.A. St. J.

**Oriental Languages**

*Arabic*  
Margoliouth, D. S., M.A., D Litt.  
New Laudian Prof.

*Aramaic* [Reader  
Stenning, J. F., C.B., M.A. Wadh.

*Assyriology* [Shillito Reader  
Langdon, S., M.A. Jes Prof &

*Bengali*  
Thompson, E. J., Hon. M.A.  
Lectr.

*Burmese*  
Rigg, A. E., M.A. Corp. Lectr.

*Chinese*  
Soothill, W. E., M.A. Trin Prof

*Egyptology*  
Griffith, F. Ll., M.A. Qu.  
Prof and Reader

*Hebrew* [Reg Prof  
Cooke, G. A., D.D. Ch. Ch  
Driver, G. R., M.A. Magd (Semitic  
Phil) Reader  
Loewe, H. M. J., M.A. Exe.  
(Rabbinic H) Lectr.

*Persian and Marathi*  
Seddon, C. N., Hon. M.A. Ball.  
Lectr.

*Sanskrit*  
Thomas, F. W., M.A., Ph.D.  
Boden Prof

*Tamil and Telugu*  
Roberts, S. G. Lectr

*Urdu and Hindi*  
Dewhurst, R. P., M.A. Ball Lectr.

**Rural Economy**

Watson, J. A. S., M.A. St. J.  
Sibthorpe Prof.  
Ellis, J. C. B., M.A. Jes.  
Lectr (Physics & Chem)  
and Demr  
Walford, A. S., B.A. Or.  
Dept Demr

*Agr. Botany*  
Bancroft, Helen, M.A. Marg. H.  
Demr.

*Agr. Chemistry* [Reader.  
Morison, C. G. T., M.A. Ball  
Clarke, G. R., B.A., B.Sc. Or  
Advisory Chemist

*Agr. Economics*, v. also Farm  
Assts in Institute for Research.  
Bridges, A., M.A. Linc., Dixey,  
R. N., B.A. St. J., Prewett,  
F. J., B.A. Ch. Ch.; Frech-  
ville, G., B.A. (M.A. Camb.);  
Skilbeck, D., St. J.; Stilgoe,  
H. C., B.A. Ch. Ch.; Upfold,  
S. J.; Maxton, J. P. (B.Sc.,  
M.A. Glas.), Dunlop, W. R.;  
Messer, M., B.A.

*Agr. Engineering*  
Owen, Capt. B. J., M.A.  
Dir. of Research Institute.

*Agr. History*  
Lennard, R. V., M.A. Wadh  
Lectr.

*Agr. Law*  
Cheshire, G. C., D.C.L., M.A.  
Exe. Lectr.

*Economic Botany & Zoology, etc.*  
Cunliffe, N., M.A. Wadh Demr.  
Woodward, R. C., B.Sc.  
Advisory Mycologist.

*Economics and History*  
Amery, G. D., M.A. B.N.C. Lectr.

*Farm Actcy. and Loc. Govt.*  
Orwin, C. S., M.A. Ball. (Dir. of  
Inst for Research in Agr.  
Economics) Lectr.

*Estate Management* [Lectr.  
Thring, D. T., Hon. M.A. Mert.

**Theology**

Lightfoot, R. H., M.A. New Coll.  
Speaker's Lectr in Bibli-  
cal Studies  
Streeter, B. H., M.A. Qu.  
Reader in Christian Origins.  
Kirk, K. E., D.D. Trin  
Reader in Moral Theol.

Rawlinson, A. E. J., D.D. Ch. Ch.  
Lectr.

Dodd, C. H., M.A. Univ. Lectr.

Grensted, L. W., B.D., M.A. Univ.  
Lectr.

*Divinity* [Reg. Prof.]

Goudge, H. L., D.D. Ch. Ch.

Williams, N. P., D.D. Ch. Ch.  
Lady Margaret Prof.

*Eccles. History* [Reg. Prof]  
Watson, E. W., D.D. Ch. Ch.

Pullan, L., D.D. St. J. Lectr.

*Exegesis* [Dean Ireland's Prof.]  
Turner, C. H., M.A. Magd.

*Interpretation of Holy Script.*  
Simpson, D. C., D.D. Or.  
Oriel Prof.

*Pastoral Theology* [Reg. Prof.]  
Ottley, R. L., D.D. Ch. Ch.

*Philos. of Christian Religion*  
Webb, C. C. J., M.A. Oriel  
Oriel Prof.

*Septuagint* [Grinfield Lectr.]  
Dodd, C. H., M.A. Univ.

### Romanes Lecturer

1929, The Hon'ble Sir John W  
Fortescue, K.C.V.O., Hon.  
Litt D. Trin. Camb

### University Extension

Lecturers employed under the  
direction of the Extra-mural  
Studies Delegacy (about 30).

## THE COLLEGES

ALL SOULS COLLEGE Founded 1437 Warden—F. W. Pember, D.C.L.,  
Vice-Chancellor.

### Fellows

Cholmondeley, F. G., M.A.

Oman, Prof. Sir Charles W. C., M.A.,  
Hon. D.C.L., *Librarian*.

Lang, Rt. Hon. and Most Rev. C. G.,  
M.A., Hon. D.D., Hon. D.C.L.

Robertson, Sir Charles G., M.A.

Simon, Rt. Hon. Sir John A., M.A.,  
Hon. D.C.L.

Dawson, G. G., M.A.

Malcolm, D. O., M.A.

Brand, Hon. R. H., M.A.

Craster, H. H. E., M.A., D.Litt.

Pollard, A. F., M.A., *Sub-Warden*.

Wilkinson, H. Spenser, M.A.

Archibald, J. G., M.A.

Adams, Prof. W. G. S., M.A.

Somervell, D. B., M.A., *Dean*.

de Zulueta, Prof. F., D.C.L.

Woodward, E. Ll., M.A.

Faber, G. C., M.A.

Coupland, Prof. R., M.A.

Curtis, L. G., M.A.

Lee, Prof. R. W., D.C.L.

Macgregor, Prof. D. H., M.A.

Holdsworth, Prof. W. S., D.C.L.

Morrah, D. M., M.A.

Harris, C. R. S., M.A., D.Phil.

Beckett, W. E., M.A.

Brierly, Prof. J. L., B.C.L., M.A.

Radcliffe, C. J., M.A.

Headlam, Rt. Rev. A. C., D.D.

Hancock, W. K., B.A.

Swinton, Prof. Maj.-Gen. Sir Ernest D.,  
K.B.E., C.B., D.S.O., M.A., *Dean*.

Blagden, J. B., M.A.

Pares, R., B.A.

Foster, J. G., B.A.

Rowse, A. L., B.A.

Makins, R. M., B.A.

Rudler, Prof. G., M.A.

Jones, A. H. M., B.A.

Hudson, G. F., B.A.

Dannreuther, D. S., B.A.

Moon, E. P., B.A.

BALLIOL COLLEGE. Founded 1263–1268. *Master*—A. D. Lindsay, C.B.E.,  
M.A.

### Fellows

Urquhart, F. F., M.A., *Tutor (Mod.  
Hist.)*.

Pickard—Cambridge, A. W., M.A.,  
*Senior Research Fellow, Lib.  
rarian*.

Hartley, Sir Harold, M.A., F.R.S.,  
*Science Tutor, Bedford Lectr.*  
(*Physical Chem.*).

Bailey, C., M.A., *Classical Tutor.*

Merton, T. R., M.A., D.Sc., F.R.S.,  
*Prof. of Spectroscopy.*

Bell, K. N., M.A., *Tutor (Mod. Hist.).*

Macgregor, D. C., M.A., *Classical  
Tutor.*

Ridley, M. R., M.A., *Tutor in Engl.  
Lit and Tutor for Admissions.*

Nicholson, J. W., M.A., F.R.S., *Tutor  
(Maths. and Physics).*

Morris, C. R., M.A., *Classical Tutor,  
Jowett Lecturer (Philos.).*

Orwin, C. S., M.A., *Estates Bursar.*

Rodger, A. B., M.A., *Tutor (Eco-  
nomics).*

Sumner, B. H., M.A., *Tutor (Mod.  
Hist.).*

Gunn, J. A., M.A., *Prof. of Pharma-  
cology.*

Mynors, R. A. B., B.A., *Classical  
Tutor.*

Thomas, F. W., M.A., Ph.D., *Prof. of  
Sanskrit.*

Barry, F. R., M.A., *Chaplain.*

Galbraith, V. H., M.A., *Reader in  
Diplomatic.*

Fulton, J. S., B.A., *Tutor in Philo-  
sophy.*

Hardie, C. G., B.A., Jr. *Research  
Fellow.*

Other Tutors and Lecturers :

Priestley, J. G., D.M., Ch Ch., *Lectr.*  
(*Physiology*).

Taylor, T. H., M.A., B.C.L., *Tutor  
(Jurispr.).*

Murray-Rust, D. M., B.A., *Lectr.*  
(*Chem.*).

BRASENOSE COLLEGE. Founded 1509. Principal—C. H. Sampson, M.A.

Fellows :

Stocker, W. N., M.A., *Lectr.*

Butler, A. J., M.A., D.Litt.

Wakeling, G. H., M.A., *Sr. Tutor.*

Wace, H. C., M.A., *Chaplain, Bursar.*

Stallybrass, W. T. S., M.A., *Vice-  
Principal, Tutor.*

Jenkin, C. F., M.A., *Prof. (Engineering  
Science).*

Barker, T. V., M.A., D.Sc.

Holroyd, M., M.A., *Tutor, Librarian.*

Anderson, J. G. C., M.A., *Prof. of  
Anc Hist.*

Griffith, I. O., M.A., *Tutor*

Taylor, T. W. J., M.A., *Tutor*

Jeffery, R. W., M.A., *Tutor.*

Platnauer, M., M.A., B.Litt., *Lectr.*

Egeland, L., B.A., *Lectr.*

M'Kie, J. I., M.A., *Lectr.*

Spalding, K. J., M.A., *Research Fellow.*

Other Lecturers

Brett-Smith, H. F. B., M.A. (*Engl.  
Lit.*).

Amery, G. D., M.A. (*Agric.*).

CHRIST CHURCH. Founded 1546. Dean—Very Rev. H. J. White, D.D.

Canons :

Ottley, R. L., D.D., *Regius Prof. of  
Moral and Pastoral Theology.*

Watson, E. W., D.D., *Regius Prof. of  
Eccl. Hist.*

Cooke, G. A., D.D., *Regius Prof. of  
Hebrew.*

Shaw, Rt. Rev. E. D., D.D., *Arch-  
deacon of Oxford.*

Goudge, H. L., D.D., *Regius Prof. of  
Divinity.*

Williams, N. P., D.D., *Lady Margaret  
Prof. of Divinity.*

Students (equivalent to Fellows) :

Payne-Smith, W. H., M.A.

Dean—Very Rev. H. J. White, D.D.

Blunt, H. W., M.A., *Tutor.*

Murray, G. G. A., M.A., D.Litt.,  
*Regius Prof. of Greek.*

Dundas, R. H., M.A., *Tutor.*

Hutchinson, G. T., M.A., *Treasurer.*

Chaundy, T. W., M.A., *Tutor.*

Felling, K. G., M.A., *Tutor.*

Rawlinson, A. E. J., D.D., *Tutor.*

Masterman, J. C., M.A., *Tutor.*

Barrington-Ward, J. G., M.A., *Tutor ;  
Librarian.*

Thomson, A., M.A., *Prof. of Anatomy.*

Russell, A. S., M.A., *Tutor, Reader in  
Chem.*

Heaton, T. B., D.M., *Tutor, Reader in  
Anat.*

Lindemann, F. A., M.A., F.R.S.,

*Prof. of Exp. Philos.*

Taylor, F. A., M.A., *Tutor.*

Harrod, H. R. F., M.A., *Tutor.*

Jacob, E. F., M.A., D Phil, *Tutor.*

Ryle, G., M.A., *Tutor.*

King, E. B., M.A., *Tutor.*

Morison, C. G. T., M.A., *Tutor.*

Myres, J. N. L., B.A.

Buzzard, Sir E. F., D M., *Regius Prof  
of Medicine.*

Percival, Lt.-Col. Sir H. F. P., M.A.,

*Steward*

Reader in Physics :

Bosanquet, C. H., M.A.

Lecturers :

Webster, T. B. L., B.A.

Grant-Bailey, S. N., M.A.

Longden, R. P., B.A.

CORPUS CHRISTI COLLEGE. Founded 1517. President—P. S. Allen, M.A., D.Litt.

Fellows :

Schiller, F. C. S., M.A., D.Sc.

Grundy, G. B., M.A., D.Litt., *Tutor,  
Vice-President.*

Phelps, W., M.A., *Tutor, Dean.*

Clark, A. C., M.A., *Prof. of Latin.*

Pidduck, F. B., M.A., D.Sc., *Tutor*

Hardie, W. F. R., M.A., *Tutor*

Prichard, H. A., M.A., *Prof. of Moral  
Philos*

EXETER COLLEGE Founded 1314

Fellows

Atkinson, C. T., M.A., *Lectr. (Mod.  
Hist.)*

Henderson, B. W., M.A., D.Litt.,  
*Tutor.*

Cheshire, G. C., D.C.L., M.A., *Lectr.  
(Law).*

Barber, E. A., M.A., *Senior Tutor,  
Dean, Lectr (Classics)*

Coghill, N. H. K. A., M.A., *Tutor,  
Lectr. (Engl.), Librarian.*

Dawkins, R. MacG., M.A., *Prof. of  
Byzantine and Modern Greek.*

Soddy, F., M.A., F.R.S., *Prof. of Chem.*

de Madariaga, Don S., *Prof. of  
Spanish.*

Balsdon, J. P. V. D., M.A., *Sub-  
Rector, Tutor.*

Thornton-Duesbery, J. P., M.A.,  
*Chaplain, Divinity Lecturer,  
Librarian.*

Geary, F. C., M.A., *Tutor.*

Other Lecturers :

Hammick, D. L., M.A. (*Nat. Sc.*)

Lawson, F. H., M.A. (*Jurispr.*).

Henderson, C. G., M.A. (*Modern  
History*).

Rector—R. R. Marett, M.A., D.Sc.

Eccles, J. C., B.A., Research Fellow

Wolfenden, J. H., M.A., *Tutor, Lectr.  
(Phys. Sci.).*

Non-Stipendiary Fellow :

Balfour, H., M.A.

Other Tutors and Lecturers :

Locwe, H. M. J., M.A. (*Hebrew*).

Stampa, L., M.A. Mag (*Mod. Hist.*).

Hunt, H. J., M.A. (*French*).

Bosanquet, L. S., B.A. Ball (*Maths.*).

Struth, M. le V., M.A. (*French*).

Blunt, A. W. F., B.D., M.A.

Catechist :

Bezzant, J., M.A. (*Chaplain and  
Lectr in Theol.*).

HERTFORD COLLEGE. Founded 1874. Principal—Sir Walter R. Buchanan-Riddell, Bart., M.A.

Fellows :

Cecil, Rt. Hon. Lord Hugh, M.A.,  
Hon. D.C.L.

Haselfoot, C. E., M.A.

Cruttwell, G. R. M. F., M.A., *Tutor,  
Lectr. (Mod. Hist.).*

Murphy, N. R., M.A., *Sr. Tutor,  
Lectr. (Philos.).*

Denniston, J. D., M.A., *Tutor, Lectr.  
(Classics), Librarian.*

Boase, T. S. R., M.A., *Lectr. (Mod.  
Hist.).*

Hignett, C., M.A., *Lectr. (Anc.  
Hist.).*

Fifoot, C. H. S., M.A., *Lectr. (Jurispr.).*

Ferrar, W. I., M.A., *Lectr. (Maths.)*.  
Hollis, A. M., M.A., *Lectr. (Theol),*  
*Chaplain.*

Lecturer :  
Brett-Smith, H. F. B., M.A. (*Engl*  
*Lit.*).

JESUS COLLEGE. Founded 1571. Principal—A. E. W. Hazel, B.C.L., M.A.

Fellows :

de Winton, Ven. F. H., M.A.  
Poulton, Prof. E. B., M.A., D.Sc., F.R.S.  
Chapman, D. L., M.A., F.R.S., *Vice-*  
*Principal, Tutor*  
Dodd, P. W., M.A., *Senior Tutor*.  
Edwards, J. G., M.A., *Tutor*.  
Fraser, Prof. J., M.A.  
Hodgkinson, J., M.A., *Tutor, Dean*

George, H. J., M.A., *Tutor, Librarian*.  
Seymour, P. A., M.A., *Tutor*.  
Cross, L. B., M.A., *Tutor*.  
Fordyce, C. J., M.A., *Tutor*.  
Jones, H. Stuart, M.A., D.Litt.

Other Lecturers

Stenning, J. F., M.A. (*Orient. Langs*).  
Brett-Smith, H. F. B., M.A. (*Engl.*).  
Ewert, A., M.A. (*French*)

LINCOLN COLLEGE Founded 1427.

Fellows :

Sidgwick, N. V., M.A., F.R.S., *Lectr*  
(*Nat. Sc.*).  
Marchant, E. C., M.A., *Sub-Rector,*  
*Sr. Tutor*  
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\*Bowen, E. J., M.A. (*Chem.*).  
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## GENERAL INFORMATION

CONSTITUTION — FACULTIES — ADMISSION — INCORPORATION — WOMEN STUDENTS—ADMISSION TO ADVANCED STANDING—AFFILIATED COLLEGES —TERMS—DEGREES—ARTS—B.LITT. AND B.SC.—ADVANCED STUDIES—THEOLOGY—LAW—MEDICINE—MUSIC—DIPLOMAS—COMMISSIONS IN H.M. FORCES—INDIAN CIVIL SERVICE—TRAINING OF TEACHERS—SCHOLARSHIPS—RHODES SCHOLARSHIPS—APPOINTMENTS COMMITTEE—LIBRARIES AND MUSEUMS—LABORATORIES—OXFORD AND CAMBRIDGE SCHOOLS' EXAMINATION BOARD—LOCAL EXAMINATIONS—EXTRA-MURAL STUDIES—PUBLICATIONS—EXPENSES.

CONSTITUTION. The *Congregation of the University* consists mainly of the teaching and administrative elements in the Univ. and Colleges. It is the principal legislative body in the Univ. and, subject to the postponing power of Convocation explained below, can adopt, reject, or amend legislative proposals submitted by the Hebdomadal Council. *Convocation*, a larger body consisting of all Masters of Arts and Doctors of the Faculties of Divinity, Civil Law, and Medicine, who have their names on the Univ. books, has the power of postponing, but not of rejecting or amending, Statutes or Decrees which have been passed by the vote of less than two-thirds of the members of Congregation present and voting. It also confers honorary degrees and degrees granted by Decree or Diploma. It sanctions petitions to Parliament, and authorises the affixing of the Univ. seal when necessary. The *Hebdomadal Council* consists of the Chancellor, Vice-Chancellor, immediate ex-Vice-Chancellor (for a certain period after the expiry of his term of office), the Proctors, and 18 members elected by Congregation. It takes the initiative in all legislation of the Univ. and forms the central administrative body. Other important bodies, endowed with considerable powers and responsibilities, are the *General Board of the Faculties* and the *Curators of the University Chest*.

The Chancellor, elected for life by Convocation, is a non-resident Officer. The executive power is chiefly in the hands of his Deputy, the Vice-Chancellor, who is annually nominated by him from among the Heads of Colleges, and the Proctors annually elected by the Colleges and Halls in rotation.

The Colleges are corporate bodies distinct from the Univ. They manage their own property, and elect their own officers; and the Proctors have no power within their walls. Their Statutes, however, render them subject to certain Univ. Statutes which deal, among other things, with reservation of a proportion of Fellowships for Univ. teachers and officers, the assignment of Fellowships to University Professorships, the admission of undergraduates, contributions for Univ. purposes, the presentation and audit of accounts, and the special examination of catering accounts. The relation between the Univ. and the Colleges is intimate. The great majority of the members of the Univ. belong to the Colleges, and all who belong to the various Colleges are at the same time members of the Univ. Teaching is given partly by Univ. Profs., Readers, Lecturers, and Demonstrators, partly by the more numerous body of College Tutors and Lectrs.

**FACULTIES.** Theology, Law, Medicine, Literæ Humaniores, Modern History, English Language and Literature, Mediæval and Modern Languages, Oriental Languages, Physical Sciences (including Mathematics), Biological Sciences. For Music and for Philosophy, Politics, and Economics, there are Boards of Studies.

**ADMISSION to the Univ.** ("Matriculation") is without respect of sex, birth, age, nationality, or creed, and follows upon admission to a College or Hall or to the Society of Non-Coll. Students, or Society of Home-Students. No one can become a member of the Univ. unless he first becomes a member of one of these Societies. An application for admission must therefore be addressed, not to any officer of the Univ., but to the proper officer \* of the Society to which admission is desired; it should be made, if possible, a year or more before residence is contemplated, especially if rooms within the College walls are desired. Except for certain classes of persons the passing of an entrance examn. is a condition of admission to matriculation.

The Colleges and Halls and the Society of Non-Coll. Students require certain qualifications of character and intellectual attainment in which the passing of *Responsions* or some equivalent examn. is necessarily included.

*Students from abroad* (v. also Appendix XXII) The *Adviser of Overseas Students* (H S Williamson, M A, Indian Institute) will advise applicants from the Dominions and Colonies and foreign countries (other than Rhodes Scholars)

The Secretary to the Delegacy for Oriental Students (H S Williamson, M.A., Indian Institute) will advise Indian and other Oriental Students, who should apply for admission through him, but they are recommended to consult the Secy of the Advisory Committee of their own Province in the first instance

*Permission to attend lectures* given by Professors and University Readers, and University Lecturers in English Language and Literature, can be obtained by persons who are not members of the Univ. on payment of a fee of £3 a term at the office of the University Chest, Clarendon Building, Broad Street.

Lectures and classes in Modern Foreign Languages may be attended by external students on payment of fees varying from 15s. to 10s. for one hour a week. Application should be made to the Clerk to the Curators, Taylor Institution.

**INCORPORATION** Members of the Univs. of Cambridge and Dublin can be, under certain conditions, "incorporated" into this Univ., i.e. admitted to the same status and degree which they hold in their own Univ. Notice of intention to incorporate as an undergraduate must be sent to the Registrar through the Head of a College or the Censor of Non-Coll. Students. The privileges of incorporation as a graduate are limited to B.A., M.A., Litt D., B.D., D.D., and D.Sc. of those Univs. Any applicant for incorporation must have kept by residence at his Univ. before taking his degree the same number of terms that he would have been required to keep at Oxford for the corresponding degree. While an undergraduate is allowed to incorporate as a matter of course, a graduate must first satisfy the Hebdomadal Council that there are adequate reasons

In 1910 a Delegacy for WOMEN STUDENTS was constituted, and provision made for recognition by the Univ. of Societies for their reception for academical study, students on the books of such Recognized Societies being accorded a privileged status. Under the provisions of a Statute approved by Convocation

\* Balliol—The Tutor for Admissions; Qu.—The Pro-Provost; Non.-Coll.—The Censor, Non-Collegiate Buildings; in other cases—The head of the Society (v. *supra*).

on May 11, 1920, which came into force on Oct. 7, 1920, women may be matriculated and admitted to degrees in the Univ. Previous to matriculation a woman must have been admitted as a member of one of the 5 Societies of Women Students. A woman may be admitted to *Responsions* before matriculation, provided her name is sent in to the Asst. Registrar by the Head or a Tutor of a Soc. to which she *bona fide* desires admission. Women members of the Univ. are admitted to all degrees (except B.D. and D.D.) under the same conditions as those prescribed for men as regards standing, exams, course of study, exercises, and fees, and under analogous conditions as regards residence. A Women Students' Property Committee administers all property vested in the Univ. for the benefit of women members of the Univ. generally, and in particular the Nettleship Library and Bertha Johnson Loan Fund. The Delegacy for Women Students has been abolished.

The number of resident undergraduate members of the Society of Home-Students (who keep statutable residence in houses approved by the Delegates for Lodgings) is limited at present to 220, exclusive of "Advanced students," and of an additional number not exceeding 5 in any term as may for exceptional reasons be given permission to reside. Preference is given to those applicants for admission to the Society whose homes are in Oxford.

ADMISSION TO PRIVILEGED STANDING OF STUDENTS FROM OTHER INSTITUTIONS: "JUNIOR" AND "SENIOR" STUDENTS. I *Universities other than Indian*.—(a) Any student who shall have pursued at his Univ. a prescribed course extending over 2 years may be admitted as a "Junior Student" provided that his course and the standard attained by him in any exams proper to it shall have been approved. No course will be approved which does not include the study of 2 languages other than English, of which languages one must be either Latin or Greek. (b) Any person who has obtained a degree at his Univ., Degree and Univ. having been approved, may be admitted as a "Senior Student," provided that he shall have pursued at that Univ. or, if approved, at more than one Univ., a course extending over 3 years.

II. *Indian Universities*.—(a) Any student who shall have pursued at his Univ. a prescribed course extending over 2 years, and obtained the Degree of B.A. or B.Sc., may be admitted as a "Junior Student," provided that Degree and Univ. have been approved. No Degree will be approved which does not include the study of English and in addition of 2 of the following languages, Latin, Greek, French, German, Sanskrit, Arabic, Persian, Pali, Classical Chinese, of which 2 either Latin or Greek or French or German must be one. (b) Any student who shall have pursued at his Univ. or, should the Hebdomadal Council in his case approve, at more than one Univ. a prescribed course extending over 3 years and obtained a Degree with 1st or 2nd Class Honours, may be admitted as a "Senior Student," provided that Degree and Univ. have been approved.

III. *A Junior Student*. (a) may reckon his 1st term as his 4th; (b) is not required to pass *Responsions*; (c) is entitled to supplicate for Degree of B.A. after having resided 6 terms and passed the 1st Public Examn. and either (1) obtained a place in the Class List of an Honour School of the 2nd Public Examn. or been allowed "*ægrotat*", or (2) satisfied the Examiners in the 2nd Public Examn. in the Final Honour School of Nat. Sc. in Chem., Pt. I., or in the Final School of Agric. or of Forestry; or (3) obtained Honours in the 1st Public Examn., and subsequently passed the 2nd Public Examn., or (4) if disqualified by standing from obtaining such Honours, shown such merit as would otherwise have entitled him to a place on the Class List.

*A Senior Student*: (a) may reckon his 1st term as his 4th; (b) is not required to pass *Responsions* or any part of the 1st Public Examn. or any

Preliminary or Previous Examn. of the 2nd Public Examn.; (c) is entitled to supplicate for the Degree of B.A. after having kept statutable residence for 6 terms, and having either (i.)—as above—(c) (1); or (ii.)—as above—(c) (4); or (iii.) satisfied the Examiners in the Final Honour School of Chemistry, Part I., or (iv.) passed the Prel. Examn. in Agriculture or Forestry and also the Final Examn. in Agriculture or Forestry.

No Junior or Senior Student will be entitled to supplicate for the Degree of B.A. except as above.

Members of the following AFFILIATED COLLEGES may claim the status of Affiliated Junior Student if they have pursued a 2 yrs.' course of study at their Coll. and taken Honours in an examn. thereon: St. David's Coll., Lampeter (3 yrs.' course with Honours may give admission to status of Senr. student); Univ. Colls., Nottingham, Southampton, Exeter; Exeter Diocesan Training Coll. The privileges of an Affiliated Junior Student are similar to but not identically the same as those of a "Junior Student."

TERMS. The Academical year, which begins in Oct and ends in June, consists of 3 terms, Michaelmas, Hilary, and Trinity, beginning, respectively, on Oct 1, Jan 10, and the Wednesday after Easter Day, and ending Dec. 17, the day before Palm Sunday, and (usually) the Saturday after the first Tuesday in July. Residence within the walls of a College or Hall, or in licensed lodgings,\* during a certain number of terms, usually 9, and never less than 6, is a condition of admission to any degree. Full terms begin Oct. 14, 1928, Jan. 20 and April 28, 1929, and end Dec. 8, 1928, March 16 and June 22, 1929.

DEGREES. B A, M.A., B.Litt., D Litt, B Sc, D Sc.; D Phil.; B D, D.D.; B.C.L, D.C.L.; B M., B Ch, M Ch, D M.; B Mus, D Mus.

The degrees which are open to graduate students of other Univs. who are qualified for matricn at Oxford are those of B.A., B.Litt, B Sc., D Phil, B C L, and B.D.

ARTS. Examns in Arts, more usually called "Schools," are sharply divided into Pass and Honour examns.; in the former there is but one standard, in the latter successful candidates are distributed into 3 or 4 classes. No one is admitted to a place in the Class Lists who has exceeded a certain number of terms reckoned from Matricn. No conditions of residence are attached by the Univ. to either Pass or Honour examns.; it is simply for the attainment of the degree of B A. that residence is obligatory. Every Coll. and Hall, however, as well as the Delegacy of Non-Coll. Students, has its own rules with regard to both residence and the entry for examns. A candidate for the degree of B.A. must (1) reside at the Univ. as a matriculated member during 9 terms, unless he is privileged as a member of another Univ. or as a "Service" Student; (2) pass or obtain Honours in the following examns., namely:

(a) *Responsions*. This is the Entrance Examination to the University. It must be passed, or some examn. accepted as equivalent to it, before matriculation. Names of candidates must be entered through an officer of the Society to which they intend to belong. The examn includes 3 groups: I. (a) Latin, (b) Greek; II. (a) English, (b) French, (c) German, (d) Italian, (e) Spanish; III. (a) Maths, (b) Nat. Sc. To have passed Responsions it is necessary to have passed either in both subjects of Group I. and in the 2 subjects in Group III., or else in one subject at least in each group, and in 4 subjects in all, including two languages other than English. See also Appendix XX.

\* In special circumstances leave to reside in a house which has not been licensed may sometimes be obtained.

(b) *The 1st Public Examn.* This consists of (1) Examn. in Holy Scripture, (2) Honour Classical Moderations, (3) Hon. Math. Modns., (4) Pass Modns., (5) Prelim. Jurisprudence, (6) Prelim. Mod. Hist., (7) Prelim. N.Sc., (8) Prelim. Agr., and (9) Prelim. Forestry. In order to pass the Examn. a candidate must pass in (1) and in one of the other subjects.

(c) *The 2nd Public Examn.* This consists of (a) a Pass School and (b) an Honour School. (a) contains a large variety of subjects, and candidates taking it are required to pass in 3 of these, of which one must be a language-subject other than English. There is also a homogeneous course in either *Agriculture* or *Forestry*. (b) includes the following, a class in any one of which is sufficient. Literæ Humaniores (Philos. and Ancient Hist.); Maths.; Nat. Science (Phys., Chem., Physiol., Zool., Bot., Geol., Astron., or Engin.); Jurispr.; Mod. Hist.; Theol.; Oriental Studies (Sanskrit, Arabic, Hebrew, Persian, or Egyptian); Engl. Lang. and Lit.; Mod. Langs. (French, Ger., Ital., Span., Russ., or Mediæval and Mod. Greek); Philos., Politics, and Economics.

Under certain conditions members of other Univs. and officers not under 21 years of age who have held for not less than 3 years a Commission in H.M. Regular Forces, and been seconded or specially relieved from active duty by the Admiralty, War Office, Air Ministry, or India Office for the purpose of attending an academic course of not less than 2 yrs., may be admitted to the status of "Service Student," and obtain exemption from Responsions and, under further conditions, from the 1st Public examn., as well as a remission of 3 terms of the necessary residence (v. *supra*, p. 211). Analogous concessions are made in favour of Probationers for Forest Services in the British Empire who have obtained an approved degree at an approved Univ. and been admitted to the status of "Imperial Forest Service Student." Natives of Asia, Egypt, or the Sudan, born of non-European parents, can apply for permission to offer a substitute for Latin or Greek in Responsions and the 1st Public examn.

**ADVANCED STUDY AND RESEARCH.** The DEGREES B.LITT. AND B.SC., instituted in 1895 in order to encourage special study and research, are granted upon the satisfactory completion of an approved course of special study or research pursued under supervision and for the most part at Oxford. Application to enter upon such a course may be made by any person who produces sufficient evidence of his ability and (1) is a member of the Univ. who has passed the examns. for the degree of B.A., or (2) has taken an approved degree at an approved Univ., or (for the B.Litt.), not being a member of the Univ. of Oxford, (3) has obtained an Oxford diploma with distinction, or is held by the Board of the Faculty to be fully qualified to engage in research. Applications must in all cases be made to the Secy. of Faculties through an officer of the Society to which the candidate belongs or desires to belong. Residence as a member of the Univ. for 6 terms is a necessary condition for either degree. A candidate for the B.Litt. must first undergo a course of training in research methods and then do a special piece of research work and write a thesis, and may be required to pass a written examn. For the B.Sc., which is confined to the faculties of science and medicine, no probationary period is prescribed.

Of a similar nature but of a much higher standard is the degree of DOCTOR OF PHILOSOPHY instituted in 1918 (v. p. 18).

To a student who, having carried out his research for a period of not less than 3 terms, has completed a course of study or research for the B.Litt. or B.Sc. and embodied the results in a dissertation, or has pursued during such residence a course of study or research under the direction of the COMMITTEE FOR ADVANCED STUDIES, a *Certificate* may be granted by the Board of the Faculty or Board of Studies concerned or by the Committee for Advanced Studies, as the case may be.

The higher degrees, D.LITT. AND D.Sc., instituted in 1900, are awarded for published work of sufficient merit.

**THEOLOGY.** The B.D. degree is open to candidates of over 26 yrs. of age who have passed a Qualifying examn. in Christian Theology, pursued a course of study therein extending over 6 terms, resided for 6 terms, and submitted a thesis of sufficient merit in some branch of the subject. No candidate may present a thesis until he has passed the Qualifying examn., which is open to Oxford M.A.'s, to persons who have, not less than 5 terms previously, passed all examns. for the Oxford B.A., and, under certain conditions, graduates of other univs. First-class hon. in School of Theol. exempts from this examn.

The degree of D.D. is open to those who have been admitted to the degree of B.D. subject to certain conditions of standing, provided they have submitted a thesis, or published work, of sufficient merit in some branch of Christian Theology.

**LAW.** The examn. for the B.C.L. degree is open either (1) to B.A.'s of the Univ. or (2) under certain conditions (including residence for 6 terms) to graduates in Arts, Philos., Science, or Law of other Univs. The subjects are Jurispr., Roman, Engl., Roman-Dutch, and Internat. Law.

**MEDICINE.** The B.M. degree is open only to B.A.'s of the Univ. who have passed certain examns. in Med. and Nat. Science. The total period of study for the degree (including the scientific subjects studied in the Arts course) is generally about 7 or 8 years, of which two or three are usually spent in London in preparation for the more strictly professional subjects of the 2nd B.M. examn. The M.Ch. degree is open to candidates who have passed all the examns. for the B.M. and B.Ch., and either are members of the Surgical staff of a recognized hospital or have acted in such a hospital as Dresser or House Surgeon for 6 mos. A candidate for the D.M. must be a B.M., and have entered on the 30th term from matricn. and had his name on the books of some Coll. or Hall or on the Register of Non-Coll. Students for 20 terms.

Affiliated Colonial or Indian Senior Students may be exempted from the preliminary examn. in Physics, Chemistry, Zoology, and Botany, in consideration of equivalent examns. passed at their previous Universities.

**MUSIC.** The degree of B.Mus. is open to candidates who *either* (a) have been admitted to the degree of B.A. *or* (b) have (1) passed Responsions or an equivalent Examn., (2) pursued at the Univ. a course of musical study extending over at least 2 years. All candidates must also pass 2 examns. in Music (the subject of one of which is the composition of a Musical Exercise) under conditions laid down by Statute. Residence for 6 terms is required, and the examn. may be completed in 6 terms as in the case of the Degrees of B.Litt. and B.Sc. A B.Mus. may qualify for the degree of D.Mus. by submitting a musical composition for approval and passing a further examn. in Music, but cannot submit a composition until the 9th term after his admission to the Baccalaureate.

**DIPLOMAS.** Most of these are open to persons who are not members of the Univ. Minimum courses and addresses of Secretaries from whom particulars can be obtained:

Geography, 1 yr., The Director, School of Geog., Mansfield Rd.

Education, 1 yr. (or Vacation course, v. *infra*), Director of Training, 15 Northam Gardens.

Economics and Political Science, Dr. A. J. Carlyle, 29 Holywell St.

Anthropology, 1 yr., The Secy., Committee for A., 40 Broad St.

Forestry, 1 year, The Professor of F., School of F. Open to graduates of Oxford or other Univs.

Rural Economy, 1 yr., The Professor of R.E., School of R.E.



Classical Archæology, 1 yr., Secy. to Committee on C.A., Ashmolean Museum.

Theology, 1 yr., Secy. of Faculties.

Open to Registered Medical Practitioners · Public Health and (also open to Registered Practitioners and to approved Bachelors and Doctors of Med. of Univs. outside the U.K.) Ophthalmology, Dean of the Medical School, University Museum.

*Certificates*: Surveying or General and Regional Geog., 2 terms, Director, School of Geog.; Physical or Cultural Anthropology, 3 months, The Secy., Committee for A., 40 Broad St.; French or German; Training for Social Work, The Secy., Social Training Committee, Barnett House.

The following have been approved as Societies for higher study at Oxford, the members of which may have their names entered in the Univ. Register of Diploma students although they are not members of the Univ.: *Ruskin College*, *Catholic Workers' College*.

COMMISSIONS IN H M FORCES, v. Appendix I. Candidates must have resided for 3 yrs. at the Univ., be over 21 and under 24, be unmarried, and be in possession of a degree. Office of the Secy. to the Delegacy for Military Instruction—20 St. Michael's St.

INDIAN CIVIL SERVICE. Studies of selected candidates are superintended by a Delegacy.

The Department for the TRAINING OF TEACHERS (address—15 Norham Gardens), established in 1919, is under the general direction of a Delegacy. For staff, see under Education. For the Univ. Dipl. in Educn. there is a 1 yr. post-grad. course, theoretical and practical. Undergraduates are admissible on certain conditions. One or, under certain conditions, two terms may be spent in practical work at a secondary school or, by special permission, abroad at an approved European Univ. Students are also accepted for a 4 yrs.' course (v. Appendix XIX).

A *vacation course* of 4 weeks (fee £7:10s.) is held biennially in August. It will be held in 1930, and is open without restriction to men and women. Students of this course who are graduates and who are teachers with 7 yrs.' experience may obtain the Univ. Diploma without further residence.

SCHOLARSHIPS. College Entrance scholarships are very numerous and valuable. The Univ. scholarships are usually open only to members of specified standing. Of those open to graduates, 16, of the aggregate value of £1130 p.a., are for Engl., Greek, and Latin, 1 (£100) is for Ment. and Mor. Philos.; 2 (£80) for Maths.; 8 (£1340) for Med. and Nat. Science; 4 (£440) for Law; 3 (£300) for Theol.; 13 (£760) for Oriental Studies. There are several College Research Fellowships tenable by persons distinguished in Science or Lit. (who may be elected without examn.) on condition of prosecuting some definite work.

The General Board of Faculties has power to award studentships for advanced study and research; and there are certain funds, such as the Craven and Ireland, from which grants for the furtherance of particular studies may be made.

The **Rhodes Scholarships** were founded in 1902 under the will of the late Cecil John Rhodes. The value of each is £400 a year, tenable at Oxford for 3 years, subject to approval from year to year by his College of the Scholar's progress and conduct. The conditions of the competition in each country or community are fixed from time to time by the Trustees.

In his will, Mr. Rhodes expressed the wish that "in the election of a student

to a Scholarship, regard shall be had to (1) his literary and scholastic attainments; (2) his fondness for and success in manly outdoor sports, such as cricket, football, and the like; (3) his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindness, unselfishness, and fellowship; and (4) his exhibition during school-days of moral force of character, and of instincts to lead and to take an interest in his school-mates."

*The Dominions and Colonies.* An annual Scholarship is assigned to each Province\* of the Dominion of Canada; to each State of the Australian Commonwealth; to the Dominion of New Zealand (2), in South Africa to the Province of Natal, the Transvaal, the Orange Free State, the Cape Province, the S.A. College School in Cape Town, the Diocesan College School of Rondebosch, the Boys' High School, Stellenbosch, and the St. Andrew's College School at Grahamstown, in alternate years to the towns of Kimberley and Port Elizabeth, and not more than three annually to Rhodesia. The Colonies of Jamaica, Newfoundland, and Bermuda have each an annual Scholarship. A single Scholarship was for the first time allotted to the Island of Malta in 1921, and is awarded once in 3 years.

In founding these Scholarships, Mr. Rhodes stated that he did so because he believed that the education of young Colonists at one of our residential universities will "broaden their view," "instruct them in life and manners," and "instil into their minds the advantage to the Colonies as well as to the United Kingdom of the retention of the unity of the Empire."

*United States of America.* Two Scholarships are assigned under the will to each State. As the Scholarship is tenable for 3 years, there must be for each State 1 year out of every 3 in which there is no election. Of the 48 States, 32 elect each year, the remaining 16 holding no election. The reason given by Mr. Rhodes for founding the American Scholarships is his "desire to encourage and foster an appreciation of the advantages which I implicitly believe will result from the union of the English-speaking people throughout the world, and to encourage in the students from the U.S. . . . an attachment to the country from which they have sprung, but without I hope withdrawing them or their sympathies from the land of their adoption and birth." *The American Oxonian*, the official magazine of the Alumni Assocn. of American Rhodes Scholars, is published quarterly by E. D. Keith, 310 Prospect Street, New Haven, Connecticut.

*Number actually in residence, 1927-28* (whole or part), 187—Studying Law, 55; Nat. Sc. and Med., 43; History, 17; Econs (Dipl. etc.), 7; Lit Hum., 11; Engl., 21; Theol., 2; Maths., 7; Phil. Pol. and Econs., 15; other subjects, 9.

*Professions followed by Rhodes Scholars since leaving Oxford.* Education, 481; Law, 290; Business Industry and Mining, 133; Govt. Service., 61; Medicine, 88; Ministry and Social Work, 44; Farming, 19; Journalism and Publ., 32; Engineering, 19; Army, Navy, or Air Service, 6; Miscellaneous, 26.

*General.* Provision is now made under the Trust for the continuous residence at Oxford of between 190 and 200 scholars. Candidates must be between 19 and 25 years of age and unmarried. They must be citizens of the country from which they come—usually with 5 years' domicile; and must have at least 2 years' standing at a regular degree-granting College or Univ., except in a few small communities which have no such institution. Detailed information for each country may be obtained from the offices of the Trust, Seymour House, Waterloo Place, London, S.W.1.

\* Two each to Quebec and Ontario.

The most useful book dealing with the subject is *Oxford of To-day*, a manual for prospective Rhodes Scholars, Oxford Univ. Press, 1922; 2nd edition, 1927.

*Secretary to the Rhodes Trustees*—Philip Henry Kerr, C.H., Seymour House, Waterloo Place, London, S.W.1. Local Secretaries: Oxford—F. J. Wythe, Esq., 9 South Parks Road, Oxford; U.S.A.—President Frank Aydelotte, Swarthmore College, Swarthmore, Pa.; Canada—J. M. Macdonnell, Esq., 153 St. James St., Montreal; Australia—J. C. V. Behan, Esq., Warden's Lodge, Trinity College, Parkville, Victoria; S. Africa—P. T. Lewis, Esq., Court Chambers, Keerom St., Cape Town.

The RHODES TRAVELLING FELLOWSHIPS, founded in 1926, are to enable resident Fellows, Tutors, or Lecturers of either sex at Oxford to travel, study, or undertake research in the British Commonwealth and the United States, and especially in those territories from which Rhodes Scholars are derived. A candidate must have spent at least 5 years as a resident Fellow in Oxford, and will be expected to return to Oxford when his Fellowship expires and resume his teaching there. The value of the Fellowship is £100 a month for from 6 to 12 months.

The APPOINTMENTS COMMITTEE, together with its Consultative Committee, contains representatives of every College. It deals with appointments of all kinds. Address: The Secretary, Acland House, 40 Broad St. Telegraphic address—Appointments, Oxford; Telephone, 3225 Oxford.

**LIBRARIES AND MUSEUMS.** The *Bodleian Library*, founded by Sir Thomas Bodley in 1602, which is also the general library of the Univ., contains over 1,250,000 vols (representing more than 2,500,000 separate literary pieces) and 40,000 MSS. Persons, other than graduates of the Univ., are admitted on presenting a recommendation from some one in a responsible position. The *Manual for Readers* (obtainable from the Librarian) contains full information about the contents and catalogues of the Library. The chief books relating to it are: Macray, W. D., *Annals* (Clar. Press, 1890, 25s.), Clark, A., *Guide for Visitors* (Clar. Press, 1906, 1s. 6d.); Gibson, S., *Some Oxford Libraries* (Clar. Press, 1914, 2s. 6d.); Madan, F., *The Bodleian Library*, London, 1921, 2s. 6d.; *The Bodleian Quarterly Record* (1s. quarterly, obtainable from the Libn.).

The Taylorian Library of *Modern Languages and Literature*, 100,000 vols., comprises the chief philological, literary, and historical works of the principal European languages and nearly all respective Reviews, Literary periodicals, etc., of Continental Societies of importance. The *Radcliffe Science Library*, 100,000 vols., which consists largely of books on Mathematics, Natural Science, and Medicine, and the Tylor *Anthropological* collection, is a Bodleian departmental library.

Two other departmental libraries are housed in the Examination Schools: one of *Law*, the other of *Social and Legal History* (Maitland Library).

The Codrington Library (All Souls College) is especially rich in works bearing upon *Modern History and Law*. The Brand Library, also at All Souls, is a collection of books on *Political Economy and Science*. There are also the following: the Beit Library (*Colonial History*) and the Library of the *English School* at the Examination Schools; a *Geographical Library* (5000 vols.) and *Maps* (13,000 sheets) in Mansfield Rd.; and a Library of *Economics and Politics* at Barnett House.

The library at the *Indian Institute* is now a departmental branch of the Bodleian Library. It contains about 60,000 volumes, etc. There is also in the Indian Institute a Museum illustrating Indian antiquities and Indian life.

The *College Libraries* include many important collections, such as the

*Russian and other Slavonic* books, 5000 vols., of Queen's; *History and Literature* MSS. of 17th Century, of Worcester; *Music and Early Scandinavian* collections of Christ Church; the Hastings Rashdall collection of books and pamphlets dealing with the *history of universities*. The MSS. in the College Libraries are described in Coxe's Catalogue, published at the Clarendon Press.

*Art and Archæology*. The Ashmolean, the earliest English Museum, formed 1600-1650, contains, in addition to a Library of *Art and Archæology*, the Parian and other marbles, Egyptian and Oriental, Classical, Prehistoric, Anglo-Saxon and local antiquities, 60,000 coins and medals (published catalogue of Mohammedan coins), and a special collection of Drawings and Engravings by Ruskin.

The Pitt-Rivers Museum has an *Anthropological* collection illustrating evolutionary history of material arts.

*Zoology, Geology, Mineralogy* (17,000 spec.), *Entomology* (Lepidoptera Collection illustrating mimicry, etc.), are all represented in the Univ. Museum.

**LABORATORIES:** Electrical; Clarendon (chiefly for study and research in Heat, Optics, and Acoustics), Chemistry, Organic and Inorganic (several Colleges have labs. of their own, e.g., Ch. Ch., Magd.—Analyt. Chem; Ball and Trin—Phys. Chem, Jes—Inorganic, Queen's), Physiology; Biochemistry; Zoology, Entomology, with extensive Collections and Library, Botany (Garden with Collections and Library); Geology (special equipment for study of fossils by serial sections); Mineralogy (special facilities for research in Crystallography), Engineering, Forestry (expl. plantations and forest garden), Human Anatomy; Pathology and Bacteriology; two *Observatories*

An *Imperial Forestry Institute* was established in 1924. It is controlled by a Board of Governors representing the Univ. and the Government departments (Colonial Office, Forestry Commission, etc.) concerned. It provides post-graduation and specialized training, as well as revision courses for forest officers already serving, and forms a centre for research in regard to forest production. Practical instruction is provided in various forest centres on the Continent.

The *School of Rural Economy* is the Department of the University responsible for teaching in Agriculture. There is an Institute for Research in *Agricultural Economics* and an Institute for Research in Agricultural Engineering. There is also an agricultural Advisory Institute responsible for advice and research on local problems in Oxfordshire and Northamptonshire. There is a farm in connexion with the School and the Institutes for demonstration and experimental purposes. The School and the Institutes are mainly financed by grants made by the Ministry of Agriculture to the University for this purpose.

The **OXFORD AND CAMBRIDGE SCHOOLS EXAMN. BOARD**, established 1873, examines or inspects and reports on the work of schools which provide education of the highest grade. It also holds yearly exams and awards certificates—Higher, School, and Lower. The two former exempt the holder, under certain conditions, from Responsions and the Previous Examination, the Matricn. exams. of London and other Northern and other English Univs., and the Preliminary exams. of various professional bodies, etc. The Regulations of the Board are published by the Ox. and Camb. Univ. Presses (post free rs. 3d.). Secretaries: at Oxford—C. H. Wilkinson, M.A., 40 Broad St.; at Cambridge—T. G. Bedford, M.A., 61A St. Andrew's St.

**LOCAL EXAMINATIONS** are held in March, July, and Dec. at Oxford and elsewhere. Candidates successful in the School Certificate or Higher Local exams., or in the Higher School Certificate examn., are on certain conditions

exempted from Responsions The regns. may be obtained from the Secy. of Local Examns., Merton St. All the examns. are open to persons of both sexes.

**EXTRA-MURAL STUDIES.** There is a Department for the non-vocational education of adult persons beyond the limits of the Univ. The Delegacy for Extra-mural studies may recommend the admission of adult students to the Univ. without the necessity of passing Responsions. The Delegacy controlling the Dept has three Committees, one for Univ. Extension Lectures, one for Univ. Tutorial Classes, and one for promoting adult education in Oxon, Berks, and Bucks.

*Univ. Extension Lectures.* The system begun in Camb. was adopted by Ox. in 1878. Up to the end of the session 1926-27 the number of persons attending courses was over 675,000, and the number of students examined 30,552; 23 summer meetings had been held. Reading University partly owes its origin to extension work. The following certs. are issued under the sanction of the Delegacy: Terminal, on courses of 10 or 12 lectures; Sessional, on 24, Sessional in Honours, implying distinction and a special essay; affiliation or Higher Certif. of Systematic Study, on a sequence of courses comprising 96 lectures *plus* a general examn., Vice-Chancellor's on same conditions as affiliation *plus* examn. in Elem. Maths and 2 languages. The majority of the lectures are on historical, scientific, or literary subjects. Further information can be obtained from the Secy. to the Delegates for Extra-mural Studies, Rewley House, Wellington Square, Oxford (Rev. F. E. Hutchinson, M.A.)

*Tutorial Classes* are held in working-class districts under the supervision of the above-mentioned Committee. Students pledge themselves to a 3 yrs.' course. The classes meet once a week for 2 hrs. from Sept. to April, and each student writes an essay about once a fortnight. The Organizing Secy. is E. S. Cartwright, M.A., Rowley House, Wellington Square, Oxford.

*The Oxford Summer Meeting* is held biennially, and will take place in August 1929. An experimental course on more advanced lines (in Mediæval History) for English and American students of history was held in 1924.

**PUBLICATIONS** *Calendar* (Nov.), 12s. 6d. net (includes Honours of each year since 1921. Earlier Honours given in *Historical Register*, 1900, 12s. 6d. net, and its *Supplement*, 1900-1920, 10s. 6d. net, giving, in addition to class lists and Hon. lists, information regarding constitution, university scholarships, offices and their incumbents, etc.). *Responsions* Pamphlet (June), 6d (Regns for 1927-29 with dates of examns. and general information), *General Information* (admission, residence, entrance scholarships, examns. for B.A., etc.), 7d. post free; *Statutes and Decrees* (Oct.), 5s. net; *Examn. Statutes* (July), 3s. 6d. net; Pamphlet on *Advanced Study and Research* (Research Degrees, subjects of study, Libraries and Collections, Scientific Departments and Staffs), 1s. net; *Pocket Diary* for academic year (Oct.), 2s. 6d. net and 3s. 6d. net, *Resident Members*, with their addresses, 2s. 6d. net (term); *Medical Degrees and Diplomas*, 6d. net; Decennial Report, 1914-23, on work of *Oxford and Cambridge Schools Examn. Board*, 6d.; *Enactments* in Parliament concerning Ox. and Camb., Winchester, Eton, and Westminster, 2 gs. Oxford Univ. *Roll of Service*, 1920, with names (14,561) and records of members of the Univ. who served in the Mily. and Naval Forces during the War, 15s. net *Oxford of To-day*, a Manual for Prospective Rhodes Scholars, ed. L. A. Crosby and F. Aydelotte, 1923, 8s. 6d. net. All the above are obtainable from the Oxford Univ. Press and its branches, as is likewise the official *University Gazette* (annual subscription, 10s. 6d. post free). The *University Handbook* (last edition, 1917) is out of print. Unofficial periodicals: *Oxford Magazine* (during term), 1s.; *Isis* (during term), 6d.; *Fritillary* (during term), 6d.;

*Oxford University Review* (during term), 6d. Among other sources of information regarding the University the following may be cited: Wood (A.), *Hist. of the Univ. of Oxford*, 3 vols., 1792-96; Wood (A.), *Athenæ Oxon. (with Fasti)*, ed. by P. Bliss, 4 vols., 1813-20; Maxwell-Lyte (H. C.), *Hist. of the Univ. of Oxford to 1530*, 1886; Foster (J.), *Alumni Oxon., 1500-1886*, 8 vols., 1887-92; *The Colleges of Oxford*, ed. by A. Clark, 1891; Rashdall (H.), *Mediæval Universities*, 3 vols., 1895; *College Histories*, published by F. E. Robinson & Co.; Wells (J.), *Oxford Degree Ceremony*, 1906 (2s. 6d. net); Headlam (C.), *The Story of Oxford*, 1907 (7s. 6d. net); Mallet (Sir C.), *Hist. of the Univ. of Oxford*, 2 vols., 1924 (£2 : 2s. net).

**EXPENSES.** "It is not possible to make any general estimate of the cost of a University course, which varies at different colleges, and depends upon the student's own means and tastes. It must suffice here to enumerate certain items common to all undergraduates, and to recommend persons anxious for further details to consult the authorities of the Society which they wish to join. . . . The total cost of living in college might perhaps be estimated at about £60 a term for a man who exercises reasonable care in his expenditure. At Keble College there is a fixed annual charge (at present £150), covering tuition, the rent of furnished rooms, board, and service. The necessary expenses of a non-collegiate student have been estimated at from £90-£100 per annum, inclusive of board, lodging, fees, and subscription. At the residential Societies for Women Students an inclusive terminal fee is charged. This is about £50 a term, but varies slightly at the different Societies."—Extract from *General Information* pamphlet mentioned in preceding paragraph. The items specified are:—(1) Annual Univ. dues, £4 : 10s.; College tuition fee, £24 to £31 10s.; room rent, £15 to £18; hire of furniture, £6; College clubs, £6, rates and taxes on the rooms occupied, College dues and establishment charges and servants' wages, kitchen and buttery bills, fuel, laundry, lighting, etc. (amounts not separately estimated). (2) Initial. matricn., £4, College admission fee (usually £5); College caution-money, £10 to £30 (returned when name is removed from the books, and often in part on taking a degree). (3) Occasional examn. fees, about £9 for B.A. (exclusive of Responsions, £3); degree fees (B.A., B Litt., or B Sc., £7 : 10s.).

What has been stated above regarding the difficulty of estimating expenses at Oxford applies equally to Cambridge. The *Student's Handbook to Cambridge*, 1924-25 (Cambridge University Press, 7s. 6d.), deals with the subject of expenses very fully, and concludes with the following remarks: "The total annual expenditure of a student, *exclusive of initial, occasional, and additional expenses*, may be fairly estimated at about £235, although on the one hand it is possible by great care to live upon less, and on the other hand a larger expenditure will often enable the student to obtain greater advantages from a University career. . . . It is of the utmost importance that the foregoing estimates should not be taken for more than they are worth. . . . The only safe guide to a student's expenditure is information supplied by the college itself at which he decides to enter." The detailed statements on which the above estimate of annual expenditure is based include "guesses" as to personal expenses which the Oxford estimate leaves out of account. The items are.—Univ. fees (capitation tax), £5 : 5s.; College fees, £54 (tuition, £24 to £30; establishment charge, £18 to £21; College dues, £4 to £10); board and lodging, £110 (rooms and service, £21 to £50; food expenses, £38 to £87; fuel, £5 to £7; laundry, £4 : 10s. to £9); personal expenses, £67 (books, travelling, tradesmen—including tailor, etc., clubs, and societies). The excluded initial expenses are caution-money, College admission fee (£2 to £5), matricn. £5, furniture, linen, china, etc., and (£2 to £4 : 10s.) cap,

gown, and surplice. The "occasional" fees are for examns. £8 (medical, £16·8s.), and degree fees, £5. The "additional" expenses (which may be heavy, especially if much private tuition has to be allowed for) are additional lecture and laboratory fees, long vacation expenses, and private tuition.

## RECENT CHANGES IN STATUTES

Under the Universities of Oxford and Cambridge Act 1923, which set up a Statutory Commission for Oxford, new Statutes were made for the University and for the Colleges. These Statutes were laid before Parliament and received the approval of the King in Council. For the following summary of the most noteworthy changes embodied in them the Editor is indebted to Sir Henry Sharp, K.C.I.E., the Secretary to the Commission.

**I. THE UNIVERSITY.**—*Governing Bodies.* The composition of some of the governing bodies of the University has been modified. Residence alone no longer qualifies a member of Convocation for membership of Congregation. The eighteen elected members of the Hebdomadal Council are now chosen without any limitation of classes (*i.e.* Heads of Colleges and Professors). Representatives of the Council are now included in the General Board of the Faculties; and the representatives of the Faculties thereon are elected no longer by individual Faculties, but by the collective votes of two groups of Faculties (Literary and Scientific). Changes in the composition of the body of Curators of the Chest likewise secure greater influence to the Hebdomadal Council.

*Legislation* The legislative power of Convocation has been reduced to one of postponement. The adoption of a proposal by not less than two-thirds of the members of Congregation present and voting is sufficient to confirm the proposal as a Statute or a Decree. If adopted only by a smaller majority, the proposal is laid before Convocation, and if then rejected, may after an interval be brought again before Congregation and is then made operative by a bare majority. (Decrees of minor importance, even if passed by a bare majority in Congregation, are not brought before Convocation.)

The power of initiative vested in the Hebdomadal Council has been strengthened by depriving the General Board of the Faculties of the right to introduce proposals in Congregation; but provision is made for reference to a joint Committee in cases where the Council refuses to put forward proposals recommended by the General Board.

*Organization of Teaching and Research* The composition of the Boards of Faculties has been modified and their functions defined. The position of Inter-Collegiate Lecturers is further recognized by the creation for them of a number of University Lectureships carrying stipends. The definitions of the duties of Professors have been made more elastic.

*Entrance Examination.* No candidate may now be admitted to matriculation unless he has passed a qualifying examination or has obtained special exemption.

*Pensions.* All teachers and officers of the University are brought within the Federated Superannuation System for Universities, and ages of retirement have been fixed.

*Other Points* The development of Extra-Mural teaching is encouraged by grants and a more suitable organization. Additional grants are also made for the Non-Collegiate Body.

## II. THE COLLEGES. *Fellowships* Categories of Fellowships (according

to duties, etc.) have been laid down. A certain proportion of Official Fellowships is reserved for teachers or officers engaged in University work; University Professorships are attached to College Fellowships, and distributed among Colleges in a ratio which is generally dependent on the total number of their fellowships. Age-limits are fixed for Heads of Colleges and Fellows, the scales of stipends have been revised.

*Scholarships and Cost of Living.* The stipends attached to open Scholarships have been placed upon an eleemosynary basis. An advisory Committee has been established for the furtherance of this principle; and, in conjunction with the Board of Education, a scheme has been formulated for the co-ordination of assistance for needy students drawn from various sources. A single age-limit for the winning of Scholarships has been laid down. Arrangements have been made for the examination of catering accounts and for economy in living-expenses. The system of general accounts has been overhauled.

*Pensions.* The provision of pensions is made universal, and almost all Colleges have been brought within the Federated Superannuation System for Universities.

*Contributions.* The Statute governing the large contributions made by Colleges for University purposes has been altered so as to produce a more equitable incidence of taxation and slightly to increase the amount so contributed.

*Women's Colleges.* In view of the grant now made to Women's Colleges, certain alterations have been necessitated in the University Statutes, and (though this did not form one of the Royal Commission's recommendations) Royal Charters have been granted to them.

III. GENERAL RESULT. These changes tend to place a larger measure of authority in the hands of the Hebdomadal Council and to produce closer co-ordination among the governing bodies of the University, to organize the teaching arrangements on a more satisfactory basis, to facilitate the admission of poor students; and, without infringing the autonomy of Colleges, to place them in closer touch with the Professoriate, regularize admissions of undergraduates, utilize Scholarship funds where they are needed, and economize the resources of the Colleges and of undergraduates.

## THE YEAR 1927-28

**BENEFACTIONS** Dr. J. E. Crombie, £500 towards the cost of the Seismological Room in the University Observatory. The Committee of the Walter Raleigh Memorial Fund, £100 and the interest on £400 for the acquisition of books for the Library of the English School. Various gifts to the Ashmolean and Pitt-Rivers Museums, and to the Lewis-Evans Collection.

**LEGISLATION** The King in Council approved of Statutes providing (1) that women shall be eligible to any Professorship, Readership, or any other University Teachership, on the same conditions as men; (2) that (a) ordinary instruction given by Professors shall be open to all members of the University without payment of any fee, and (b) that any fees received for other than ordinary lectures or instruction given by a Professor shall be applied towards the expenses of the Department of which he is in charge; (3) that certain Professors shall receive £200 a year by way of special allowances in respect of their duties as Heads of Departments. Approval also given to the Statute limiting the number of women undergraduate students in residence to 150 each at Somerville College and St. Hilda's College, and 160 each at Lady Margaret Hall, St. Hugh's College, and any other Women's Society which may hereafter be established by vote of Convocation; no new Women's Society to be established



unless the average number of women undergraduates in residence during the previous three years shall have been less by 160 than one-fourth the average number of men. Diploma in Comparative Philology The date on which Hilary Term begins was changed from Jan. 14 to Jan. 10.

**EXTRA-MURAL STUDIES.** Convocation approved Regulations enabling the Delegacy for Extra-mural Studies to recommend the admission of Adult Students to the Univ. without the necessity of passing Responsions. A grant of £500 for three years was made to the Delegates to provide schol'ps. for Adult Students.

Nine Adult Students were in residence in the University under the Delegacy's Adult Scholarship Scheme, five in their first year and four in their second. One student obtained his B.Sc. at the end of his second year, and two obtained the Diploma in Economics and Political Science (with Distinction)

**HONORARY DEGREES** D C L.—H R H the Duke of York, H M. King Amanulla, King of Afghanistan; Viscount Grey of Fallodon; Lord Blanesburgh of Alloa; Admiral of the Fleet Sir Charles E. Madden, Bart; Field-Marshal Sir George F. Milne; Elizabeth Wordsworth, Hon. Fellow of Lady Margaret Hall. D Sc.—Baron Melchett of Landford; E. B. Knobel. D Litt.—M L'Abbé Henri Bremond, Sir Cecil H Smith, R S Conway, Hulme Professor of Latin, Manchester, Sir William A Craigie, Professor of English, Chicago, C T Onions, Reader in English Philology, H S Milford, Publisher to the University, R W. Chapman, Secretary to the University Press, John Johnson, Printer to the University. D.D.—The Ven Robert H Charles, Archdeacon of Westminster, Rev. Alan H McNeile, Regius Professor of Divinity, Dublin, Rev J. W Oman, Principal of Westminster College M A.—Mrs Florence J Weldon, H Gow, Vice-Principal of Manchester College; W W McIntosh, formerly Vice-President of the American Branch of the University Press, A T. Malins, Assistant on the Staff of the *Oxford English Dictionary*, Major A V Spencer, Bursar of Corpus Christi College

**SPECIAL ANNUAL LECTURES** The Romanes Lecture was delivered by Prof D M S Watson, F R S. (subject "Palaeontology and the Origin of Man"), the Halley Lecture by Dr Harlow Shapley, Director of the Harvard College Observatory (subject "A Search for the Centre of the Milky Way"), the Herbert Spencer Lecture by Prof A. M. Carr-Saunders (subject. "Professions Their Organization and Place in Society"); the Taylorian Lecture by the Rt. Hon H. A L Fisher, M A (subject "A French Poet of To-day"); the Zaharoff Lecture by M Fernand Baldensperger, Professor in the University of Paris (subject "L'Appel de la fiction orientale chez Honoré Balzac"). For the first time for many years a lecture in Ancient Greek was given by A B Poynton, Public Orator (subject "Isocrates")

**GENERAL** The School of Bio-Chemistry was opened by the Chancellor in October 1927 The Rockefeller Trustees gave £55,000 to meet the cost of the building and its equipment Rewley House was opened by the Chancellor in December 1927 as the headquarters of extra-mural work.

**INTERCHANGE.** Leave of absence was granted to the Professor of Chinese (Prof. Soothill) to enable him to deliver a course of lectures at Columbia University; and to the Savilian Professor of Geometry (Prof. Hardy) to enable him to exchange work with Prof. Veblen of Princeton University.

**DEATHS.** D. G. Hogarth, Keeper of the Ashmolean Museum, Nov. 6, 1927; M. H. Green, Fellow of Trinity, Nov. 10, 1927; H. H. Gibbon, Fellow and Chaplain of Balliol, Jan. 28, 1928; E. M. Wrong, Official Fellow as Tutor in Modern History, Balliol, Feb. 15, Rt. Hon. George, Viscount Cave, Chancellor

of the University, Mar. 29; Winifred H. Moberly, Principal of St. Hilda's, April 6; A J Jenkinson, Fellow and Tutor, Brasenose, April 19; H. W. C. Davis, Regius Prof. of Modern History, June 28.

STUDENTS Full-time, 4489; research students, 189; preparing for first degree, 4084; other full-time students, 216 Matriculations, 1523.

Extra-mural tutorial classes, 31; preparatory, 4. Average attendance, 633.

University Extension lectures, 626, distributed in 85 courses at 67 centres, regularly attended by nearly 8000 persons Of these courses 12 were in History, 42 in Literature, 5 in Economics, 11 in Art and Archæology, 7 in Natural Science, 6 in Music, 1 in Psychology, and 1 in the Literature of the Bible.

DEGREES B A, 1085; M A., 473; B Litt, 35; B.Sc., 28; B C.L., 14; D.C.L., 1; B M., 23; D.M., 8; B.Mus., 5; B.D., 3; D.Phil., 19.

# UNIVERSITY OF READING

VISITOR—H M. THE KING.

CHANCELLOR—J H. BENYON, M A , Lord-Lieutenant of Berkshire.

PRESIDENT OF THE COUNCIL—ALFRED PALMER, D.Sc

VICE-CHANCELLOR—W. M. CHILDS, M.A , LL D.

TREASURER—SIR WILLIAM A MOUNT, Bart , C B E., M.A.

REGISTRAR—H KNAPMAN, M A.

DEANS OF FACULTIES See under " General Information "—Faculties.

LIBRARIAN—S A. PEYTON.

BURSAR—J. S. SIMPSON, B.Sc.

## PROFESSORS, LECTURERS, ETC.

*Agriculture, etc., v. infra*

*Art* (Department of Fine Arts)

Seaby, A. W. Prof

7 Teachers in Drawing and  
Painting, Design, Modelling,  
Handicrafts.

*Botany, v. also Agr.*

Stiles, W., M.A., Sc D. Camb.,  
F R S , F L S Prof

Saxton, W. T , M.A. Camb., F.L.S.  
Lectr.

Prankerdt, Theodora L , B Sc.  
Lond , F L S. Lectr.

*Chemistry, v also Agr* [Prof

Bassett, H , D.Sc Lond , Ph D  
Mun., D. ès Sc Nancy, F I C.

Wynne-Jones, W F K , B Sc Ox ,  
B Sc. Wales Lectr

Dodgson, J W , B Sc Lond ,  
A.I.C. Lectr

Maxted, D. R., B Sc. Lond ,  
A R C Sc Lectr.

Durrant, R G , M.A. Ox.  
Hon. Research Fellow.

A Sessional Teacher of Gas-Fitting  
and Gas Supply

*Classics*

Ure, P. N., M A Camb. Prof

Haigh, W., M.A., B.Sc. Lond  
Lectr. (in German also).

Jolliffe, Norah C , M.A. Camb.

Lectr.

Semple, W. H., Ph.D. Camb , B.A.  
Belfast Lectr.

Woodcock, E C , B A Camb  
Lectr

Ure, Annie D , B A Lond.  
Hon. Research Fellow.

*Commerce*

Taylor, H , F.L A A. Lectr.

Coman, Grace Asst. Lectr.  
1 Asst

*Dairying, v infra*

*Domestic Subjects*

Wood, Mrs E. May

Lectr. in charge of Dept  
3 Assts. and a Teacher of Dress-  
making and Needlework  
1 Sessional Lectr. in Hygiene.

*Economics*

Buer, Mabel C , D.Sc. (Econ )  
Lond. Lectr.

*Education*

[Sen. Lectr.

Cooke, H. S , M A Ox and Cape  
Campbell, Isabella E , M.A., B.Ed.  
Edin. Lectr.

Glason, J. A , M.B.E , B.A. Lond.  
Lectr.

Smith, E., B Litt. Ox., M.A., B.Sc.  
Liv. Lectr.

Whittaker, Alice L., B.Sc., Ph.D.  
 Liv Lectr.  
 Wolters, A. W. P. (v. Psychology)  
 Lectr.

Mitchell, W F, M A Edin  
 Asst Lectr  
 2 Instrs. in Physical Training.

*English Language & Lit.* [Prof  
 Dewar, R., M A. Glas (E Lit)  
 Morley, Edith J., Hon. M A Ox.  
 (E. Lang) Prof.  
 Bullock, Constance, B A, Ph D  
 Lond Lectr.  
 Dyson, H. V. D, B Litt, M A  
 Ox Lectr  
 Plumer, The Hon Eleanor M,  
 Ox Hon School of English  
 Sessional Lectr

*French* [Prof  
 Desseignet, J, Ag de l'U Paris.  
 Gerson, G H., B A. Camb Lectr.  
 Paton, Dora A, M.A. Ox. Lectr  
 Salmon, Yvonne M, L ès L Lectr.

*Geography*  
 Gilbert, E W, M A Ox  
 Lectr (Historical G)  
 Miller, A A, M Sc Lond  
 Lectr (Physical G)  
 Morris, W F, B A Lond  
 Asst Lectr

*Geology*  
 Hawkins, H L, D Sc Manc,  
 F.G S. Prof  
 Derryhouse, A R, D Sc Leeds,  
 M.Sc Manc, F G S Lectr.

*German*, v. also Classics  
 Norman, F, M A. Lond Lectr

*History, Modern*  
 Stenton, F. M, M A Ox. Prof.  
 The Vice-Chancellor Hon. Prof.  
 Sacret, J H, M A Ox Lectr.  
 Stenton, Mrs. F. M, B A. Lond.  
 Lectr.  
 Peyton, S. A. Asst. Lectr.

*Mathematics*  
 Neville, E. H., M A. Camb., B.Sc.  
 Lond. Prof

Ashcroft, Lucy, M A Dub Lectr  
 Broadbent, T. A A, B A. Camb  
 Lectr.

Clatworthy, J. P., B.Sc. Lond.  
 Lectr  
 Ternouth, Elsie J, M A. Glas.  
 Lectr.

Bowler, F. T., B Sc. (Eng) Lond.,  
 A.M I.C.E (Applied Mech)  
 Sessional Asst Lectr  
 3 Teachers of Machine Drawing  
 and Applied Mechanics.

*Music*  
 Allen, Sir Hugh P, M A Camb,  
 D Mus. Ox. Visitor of School.  
 Stanton, W K, M A, B Mus. Ox.  
 Lectr in Charge of School  
 14 Teachers

*Philosophy*  
 de Burgh, W G, M A. Ox. Prof.  
 Hodges, H A, B A Ox Lectr

*Physics*  
 Crowther, J. A, M.A., Sc D.  
 Camb., F.Inst P. Prof.  
 Bond, W. N, M A Camb, D.Sc,  
 B Sc (Eng) Lond, A R C.Sc,  
 F Inst P. Lectr.  
 Pearson, R. L, A M I.E.E. Lectr.  
 Ward, H, M Sc Leeds, F I C  
 Sessional Lectr.

*Psychology*  
 Wolters, A W P, M A Lond.  
 (also Lectr in Educn) Lectr.

*Spanish* [Teacher.  
 Edwards, P. C., M A. Camb.

*Vet. Hygiene*, v. Agric.

*Zoology*  
 Cole, F. J, D Sc Ox, F.R.S Prof.  
 Eales, Nellie B, D.Sc Lond. Lectr.  
 A Museum Asst.

### Agriculture and Horticulture

*Agriculture*  
 Pennington, S, B Sc. Edin,  
 M R C.V.S Prof.  
 Campbell, K. W. D., B.Sc. Durh.  
 Lectr.

- Thomas, E., B.Litt. Ox., B Sc. Wales  
Lectr. & Advisory Officer (Agric. Economics).  
An Instr in Poultry.  
County Organizer and 5 Instrs. for Berkshire.
- Agr. Bacteriology*, v. also Dairy B.  
Mason, Grace H., N.D.D. Lectr.
- Agr Botany* [Prof  
Percival, J., Sc.D. Camb, F L S  
Erith, Adela G., B.Sc., Ph D. Lond. Lectr.  
Waldie, J S L, B Sc Edin. Lectr.  
1 Asst.
- Agricultural Chemistry*  
Neville, H. A. D, M.A. Camb, B Sc. Lond. F.I.C Prof  
Bee, J W, B A Camb Lectr  
Curry, C. N., B.Sc Durh. Lectr.  
Nicholson, H H, M A Camb Lectr. and Advisory Officer.  
Thompson, J., Ph D Heid, F I C Analyst
- Building Construct., etc*  
Hitchins, W. W., L R I B.A., P.A S I. Lectr.  
1 Asst
- Dairying*  
Todd, A. Lectr.  
3 Assts.
- Dairy Bacteriology*  
Williams, R. Stenhouse, M B, C.M., B Sc. Edin., D.P.H. Camb. Research Prof.
- Mattick, A. T R., B Sc. Lond. Lectr. (Dairy Hygiene).  
Maddock, E C. G., C I.E., M D, Ch B. Edin, D.P.H. Camb, D.T.M. Liv.  
Hon. Research Fellow.  
1 Asst.
- Dairy Chemistry*  
Golding, J, F I C Research Chemist  
Mattick, Mrs. E., M.Sc., Ph.D. Brs. Asst. for Research  
Davies, W. L, Ph D Camb, M Sc. Wales, N D A, F I C.  
Bio-chemist (Research Section)
- Dairy Husbandry*  
Mackintosh, J, O B E, N.D A., N D D.  
Head of Research Section and Lectr.  
1 Asst
- Economic Entomologist*  
... .
- Economic Mycologist*  
Buddin, W., M.A. Camb.
- Horticulture*  
Cobb, A. J. Lectr and Instr.  
3 Assts
- Machinery*  
Passmore, J. B., B.Sc Lond. Lectr.
- Veterinary Hygiene*  
Male, G. P., M R C.V.S Lectr.
- University Extension**  
Tutors, 3.

BRITISH DAIRY INSTITUTE (occupying a building on the University site and controlled by a committee representing the British Dairy Farmers' Assocn. and the University). Manager and Chief Instructor—A Todd. 2 Asst. Instrs

THE NATIONAL INSTITUTE FOR RESEARCH IN DAIRYING, Shinfield, near Reading, established by the Ministry of Agric and Fisheries in 1912, forms part of the University. It is governed by a Board consisting of representatives of the Ministries of Agric. and Health, R A S of England, British Dairy Farmers' Assocn., Nat. Farmers' Union, etc. It has four Depts.—Dairy Bacteriology, Dairy Chemistry, Dairy Husbandry, and Dairying.

## GENERAL INFORMATION

Based upon the local Oxford University Extension Centre and the local Schools of Science and Art, and deriving its first impetus largely from Christ Church, Oxford, a University Extension College was opened at Reading in 1892. In 1902 it established a claim to a State grant as a University College. In 1904 and 1905 it received endowments of land and money (£50,000) from the Palmer family. In 1908 Lady Wantage endowed Wantage Hall as a residence for 78 men students, thus giving an important impetus to the already declared policy of the Council to make residence in a Hall the rule and not the exception. In 1911 an Endowment Fund of £200,000 was subscribed by the aforesaid benefactors. Considerable additions to the endowments of the University (especially in connexion with the Library and with the National Institute for Research in Dairying at Shinfield) have been made in recent years. The University dates from March 17, 1926, when a Royal Charter was granted.

**LIBRARY**, 46,000 vols, including Overstone collection (7500 vols) of books on Polit Econ. (pubd. before 1850), English and French thought during eighteenth century, and topography (especially Northamptonshire); 12,000 pamphlets. 170 periodicals are received. **MUSEUMS**: Zool. and Hist. and Archæol. **LABORATORIES**: Bacteriol., Bot., Chem., Geol., Mech., Physics, Psych., Zool. **Fine Art Studios**. **School of Music**. **Agricultural Machinery Hall**. Two farms (359 and 141 acres) and Horticultural Station.

**FACULTIES** (1) Letters, (2) Science, (3) Agric. and Horticulture (associated with which are the National Inst. for Research in Dairying and British Dairy Inst.).

**DEANS**. (1) Prof. de Burgh (Philos.); (2) Prof. Bassett (Chem.); (3) Prof. Neville (Ag. Chem.).

**DEPARTMENTS**: Fine Arts, Music, Domestic subjects.

**ADMISSION**. Candidates for Degree courses must matriculate before admission (see Appendix XX). Entrance examn. for Diploma courses in Commerce, Agric., Dairying, Hortic., Domestic subjects.

**DEGREES** B.A., M.A., D.Litt.; B.Sc., M.Sc., D.Sc.; B.Sc. (Agric.), B.Sc. (Dairying), B.Sc. (Hortic.); Ph.D. The M.Sc. and D.Sc. are obtainable in the Faculty of Agriculture and Horticulture as well as in the Faculty of Science. The Senate may decline to admit to a degree course a person whose place of residence during term is at too great a distance from Reading, and the degree of Bachelor may not be granted to a candidate whose record as a student of the University is not deemed satisfactory.

The Charter provides that degrees representing proficiency in technical subjects shall not be conferred without proper security for testing the scientific or general knowledge underlying technical attainments.

An *oral examination* forms part of the Final examn. for a B.A. degree with honours, except in Mathematics, and, at the discretion of the Examiners, may form part of the Intermediate or of the Final Examn. for a Pass B.A. degree, or of the Intermediate or Final Examn. for the B.Sc. In the Final Examn. for the B.Sc. candidates are examined upon either a *General Course of study* (3 subjects) or a special course; honours can be obtained in either case. The Final Examn. (Special) is ordinarily taken after passing the Final Examn. (General). The course for the degree with honours extends over 4 years in Agriculture and in certain cases in Arts and in Science.

**UNIVERSITY DIPLOMA COURSES** are as follows : 2 yrs.—Agric., Commerce, Dairying, Domestic subjects, Hortic. ; 3 yrs.—Fine Art, Music, Distinction in Agric., Dairying, Domestic subjects, or Hortic. Univ. Diploma Course (post-graduation) in Education (1 yr.).

**OTHER COURSES** for Univ. Certifs in Agric, Dairying (6 mos), Commerce, Domestic subjects, Geography, Horticulture, Secretarial subjects (1 yr.), Metal Work, Wood Carving, Embroidery, Leather Work, Weaving, Writing and Illuminating (2 yrs.), Dairy Factory Management, Poultry-keeping (10 weeks) ; for the Pre-Medical examn. of the R.C.P. and R.C.S. (1 yr.), British Dairy Farmers' Assocn. examns. (6 mos), L.R.A.M., A.R.C.M., etc. ; Special course in Illustration.

**TUTORIAL SUPERVISION.** Every student following one of the organized day courses or a specially arranged day course involving frequent attendance at the Univ. for at least 2 terms is placed under the supervision of a tutor

A **RESEARCH BOARD** promotes research and original work in the Univ (apart from the National Institute for Research in Dairying). It administers funds entrusted to it for the purpose, and issues an annual record and report.

**TERMS.** 3, each of 10 weeks, the first beginning on the first Friday after Oct. 3. Vacations of 4 weeks at Christmas and 5 weeks at Easter.

**RESIDENCE.** All students following full courses of day study, unless residing with parents or guardians, are ordinarily required to reside in a University Hall of Residence. There are two Halls (Wantage and St. Patrick's) for men, and four (St Andrew's, Wessex, St George's, and Ashdown) for women students. Full-time day students living in recognized houses, or at home in or near Reading, are associated in St David's Hall, a non-residential club.

**SCHOLARSHIPS OPEN TO GRADUATES.** Offered annually by the Univ —£100, "Ernest Ridley"—£40 plus tuition fees, for one year, renewable for a second year.

**FEES.** For Tuition : Ph.D course—£5 or £7 p a. ; M A course—£5 p.a. , M Sc course—£7 p a , Bachelor's Degree course—Arts, £30 p a. , Sc. or Agric or Dairying or Hortic , £35 p a ; Diploma course—Commerce, £25 p a , Agric. or Hortic or Domestic subjects, £30 p a , Dairying, £35 for 1st, £41 for 2nd year , Fine Arts, £18 ; Certif course—£18 to £30 Tuition fees are in most cases reduced by 25 per cent. to students from neighbouring counties, under certain conditions

**EXPENSES** Total average necessary yearly expenses (excluding travelling, clothing, and personal laundry) about £120 p.a., namely : (i) Registration, matriculation, cap and gown, tuition, examination, and graduation, average £38 p a for a degree student , for diploma or certificate student somewhat less (ii.) Maintenance, including board and lodging in Halls or lodgings and sanatorium fee, maximum for 30 weeks about £77 for a man and £69 for a woman student. (iii.) Personal, including subscription to Union (3 gs. p.a ), and cost of books and stationery, widely variable, say £6 p a.

Courses of lectures open to the public are ordinarily charged for at 15s. per term (30s per session) for each subject (one hour per week).

**STUDENT ORGANIZATIONS** · Students' Union and Representative Council. An Old Students' Association meets annually at the Univ. at Whitsuntide.

**UNIVERSITY EXTENSION, ETC** Agriculturists are helped by correspondence, visits, local lectures, examination of diseased plants, etc. Evening classes are

held in Machine and Building Constn., Builders' Quantities, and most of the subjects in which Day courses are provided. Tutorial classes are held in connexion with the W E A

PUBLICATIONS. *Calendar*; General Prospectus (including illustrations and plans), Departmental Prospectuses (Degree courses, Training of Teachers, Commerce and Secretarial, Agriculture, etc., Fine Arts and Handicrafts, Music, Domestic subjects); Scholarships and Exhibitions, Guide to Evening Classes, 2d., *The New University of Reading. some Ideas for which it Stands*, by Principal W. M. Childs, 1926.

## THE YEAR 1927-28

BENEFACTIONS. A piece of land on the north bank of the Thames as a site for a University Boat-house from Mr. Eustace Palmer, £100 to the Prince's Meadow Appeal Fund from Mr. S. R. Whitley; books from Sir Charles Firth; £100 from Mr. R. H. Mardon for the Univ. Library, and £150 for Univ. purposes from the newly-established association known as the Friends of the University of Reading

NEW BUILDINGS. An enlargement of St. Patrick's Hall (one of the Halls of Residence for men students) has been completed, the cost of the work being partly met by a special grant of £8500 from the Treasury. New quarters for resident members of the Academic Staff and rooms for thirty-two additional students have been provided. The dining-hall has been enlarged. New common-rooms for members of the Staff and for students and a library have been built.

The University Council have appointed a Committee to deal with schemes for new and enlarged buildings on the main University site. Plans and estimates are being prepared, and an appeal for the necessary funds will shortly be issued.

OTHER DEVELOPMENTS. The large east room on the ground floor of the University Library has been equipped for books and readers. The School of Music has been reorganized, and a Lecturer in charge of the School has been appointed.

STUDENTS. Full-time total, 610, including 14 graduates. Part-time total, 942, including 6 graduates.

DEGREES. B.A., 49; B.Sc., 21; B.Sc. (Agric.), 2; B.Sc. (Hortic.), 4; M.A., 1, Ph.D., 1



# THE UNIVERSITY OF SHEFFIELD

VISITOR—H.M. THE KING

CHANCELLOR—The Most Hon. the MARQUESS OF CREWE, K.G.

PRO-CHANCELLORS—Lt.-Col. H. K. STEPHENSON, D.S.O., LL.D., D.L ;  
SIR WM. E. CLEGG, C B E., LL.D.

VICE-CHANCELLOR—SIR W. HENRY HADOW, C.B.E., M.A., D.Mus ,  
LL D.

TREASURER—W N. DREW, A R S M , M.I Chem E

DEANS OF FACULTIES. See under "General Information"—Faculties

REGISTRAR—W. M. GIBBONS, O.B.E., M.A.

LIBRARIAN—A P HUNT, B A.

## PROFESSORS, LECTURERS, ETC.

<i>Anatomy</i>	[A Jackson Prof	Bennett, G M, M A. Camb.,
Patten, C J., M.A, M.D, Sc D.		B A., Ph D. Lond.
Dub, J.R A.I.		Lectr. (Organic C.).
Cobb, J. H, M B, B S. Lond ,		Glasstone, S, Ph D, D Sc. Lond.,
M B., Ch.B, F.R C S (also		F I C (Phys C) Lectr.
Lectr in Surg. Anat.) Lectr		Turner, Emily G, M.Sc.
Naish, Mrs Lucy, M B. Lond		Asst. Lectr.
(Osteology) Lectr		Bennett, Dorothy M, M.Sc.
Lavery, M B, M B, B Ch ,		Asst Lectr.
B A O, M Sc Belfast		Smith, T. B, B Sc Lond ,, ,,
Senior Demr		Chapman, A. W., D.Sc Lond.
Yates, H. B, M A, M B Camb ,		Asst Lectr.
F.R C S Demr.		Wyatt, W F, M Sc Asst. Lectr.
<i>Architecture</i>	<i>Civic Art</i>	
Stephen, W, M A, B Arch Liv ,	.....	Prof.
A R I B A Lectr	<i>Classics</i>	
I Hon Lectr. for Evening	Forster, E S, M B E, M.A. Ox.,	
Courses.	F.S A (Greek) Prof.	
<i>Art, v. Civic</i>	Summers, W. C, M A. Camb.	
<i>Biology, v. Zool. and Botany</i>	(Latin) Firth Prof.	
<i>Botany</i>	Whitehead, Florence, M A. Manc.	
Bentley, B. H, M A Ox Lectr	Lectr.	
Lind, Edna M., B.Sc., Ph.D. Liv.	Tredennick, G. H. P. P., M.A.	
Asst. Lectr.	Camb.	Lectr.
<i>Chemistry</i>	<i>Dentistry, v. infra</i>	
Wynne, W. P, D.Sc. Lond.,	<i>Economics</i>	
F.R.S. Firth Prof.	Knoop, D., M A. Manc.	Prof.
	Jones, G. P, M.A. Liv.	Lectr.

Pool, A G., B.Sc. (Econ.)

Asst. Lectr.

### *Education*

Turnbull, G. H., M.A. Liv, Ph.D.

Bonn Prof.

Vickers, W., M.Sc., M.Ed. Manc

Lectr.

King, Etheldreda, B A. Lond.

Lectr.

Bone, Woutrina A., B A Lectr.

Bradford, E J G, M.Sc. Lond.

Lectr.

Thompson, J. Ridley, D.Sc Durh

Lectr.

### *Engineering, Civil*

Husband, Joseph, M Eng Prof.

Snelgrove, E C, M.I Struct.E,

M. French S C E. Lectr.

Jenkins, J, M Sc Belf, A M I C E

Asst Lectr.

### *Engineering, Elec*

Wall, T. F., D Sc. Vict., D.Eng.

Liv. Lectr.

Hainsworth, C. H, A M I E E.

Asst Lectr

Joyce, T. C., B Sc Lond & Brns

Asst Lectr

### *Engineering, Mechanical*

Lea, F. C., O.B.E., D.Sc. Lond.,

A.R.C.S. Prof

Boulden, F., B Sc Lond, M Eng

Senr Lectr.

Kershaw, J. W., M Sc. Manc,

M Eng Senr Lectr.

Hibbins, W. G, B Sc. Lond,

B Eng. Lectr.

Waite, C. W., B Sc. Lond. Lectr

Davies, H. J., B.Sc. Lond Lectr

Chappell, A J, B.Sc Lond.

Asst Lectr.

Burnet, W Asst. Lectr. & Demr.

Turner, F. C., M Eng

Asst. Lectr. & Demr.

### *Engineering, Mining*

Statham, I. C. F., B.Eng. Prof.

Bevan, E., B Sc. (Min) Lond.

Lectr.

Sinclair, J., M.Eng. Lectr.

Cooke, W E, M.Eng

Research Asst.

### *English Lang and Lit.*

Evans, B I, M.A. Lond.

Prof. (Eng. Lit.).

Jones, J. D, M.A., B.A. Lond.,

Ph D Berl.

Lectr. (Eng. Lang ).

White, H M O, M A Dub Lectr

### *French*

Baker, A. T., Litt D. Camb.,

Ph D. Heid Prof

Clapton, G. T., M A. Lectr.

Stewart, W. McC., M A. Dub

Lectr.

Truffert, A, L. ès L. Paris

Asst Lectr.

### *Geography*

Brown, R. N. Rudmose, D Sc.

Aberd Lectr

Garnett, Alice, B A. Lond.

Asst. Lectr

### *Geology*

[Sorby Prof

Fearnside, W G, M A Camb

Wilcockson, W. H, M A Camb

Lectr.

Lewis, H. P, M A Camb.

(Asst Lectr. in *Mining G.*).

### *German*

Willoughby, L A, D Lit Lond.,

Ph D. Vienna Lectr.

Weber, C A, Ph D Gött.

Asst Lectr.

### *History*

Appleton, H W, M A. Ox.

Prof (Ancient H )

Black, J B, M A Glas and Ox

Prof. (Mod. H.).

Ward, E H, M A Camb

Lectr (Eccl H )

Lewis, N. B, M A, Ph D Manc

Lectr. (Modern H )

Tyler, J. E., M A

Lectr (Modern H )

### *Law*

[Prof.

Trotter, W F, K.C (Scot.), LL.D.,

M.A. Camb, Barr.-at-Law

Lias, W. J. (Judge), M.A. Camb.

Prof. Internat. Law,

Metcalfe, O. K., M.A., LL.M. (Pub.  
and Com. L.), Barr.-at-Law  
Lectr.

Renwick, J., M.A., LL.B. Camb.  
Asst. Lectr

Downing, F., A.C.A.  
Tutor in Trust Accounts, etc.

*Mathematics*

Daniell, P. J., M.A., Sc D. Camb.  
Town Trust Prof.

Stewart, C. A., M.A., D.Sc Glas,  
B.A Camb Lectr

Saynor-Thompson, R., B.Sc (for  
Engin) Lectr.

Cox, R. R. S., M.A. Camb.  
Asst. Lectr. and Tutor  
and Curator of Obser-  
vatory.

Lightfoot, N. M. H., B.A. Camb.  
Asst. Lectr.

Cooper, R., B.A., Ph D. Camb.  
Asst. Lectr

*Medicine, v. infra*

*Metallurgy, v. also Tech.*

Desch, C. H., D Sc. Lond, Ph D  
Wurz, F R S Prof

Knowles, F. K., M.Met. (also Lectr.  
in Dental M.) Sen. Lectr.

Ibbotson, F., B.Sc. Lond., D.Met.,  
F.R.C.Sc.I. (also Lectr. in  
Dental M) Sen. Lectr.

Wrecks, J. H., B Met Lectr.

Orme, F, M Met. Lectr

Rees, W. J., B.Sc.Tech.  
Lectr. (Refractones).

..... Lectr. (*Electro-M*).

Percival, R. T. Demr.

Gregory, E. Demr

Smith, C. J., Ph.D. Lond., A.R.C.S.  
Research Asst.

*Mining, v. Engin., Geol.*

*Music*

Shera, F H, M A, Mus M. Camb.  
James Rossiter Hoyle Prof.

*Philosophy* [Lectr.

Laing, B M., M.A., D.Litt Aberd.

*Physics*

Milner, S. R., D Sc Lond. and  
Bris., F.R.S. Prof.

Lawson, R. W, D.Sc. Durh.

Lectr.

Clarke, J. R., M Sc. Lectr.

Evans, Morgan H., B.Sc. Wales  
Asst Lectr.

Cameron, W H. B, M Sc. Belf  
Asst. Lectr.

Chalklin, F. C., B Sc, Ph.D.  
Lond.

*Physiology*

Leathes, J. B, M A, M.B., B.Ch.  
Ox., F.R.C.S., F.R.C.P.,  
F R S Prof.

Eaves, Eliz. C, B Sc, M.D, B S,  
D P.M Lond. Lectr

Imrie, C G, M.D. Westn. Ont.,  
M R C P Lectr.

Clark, G. A., M.D Durh. Lectr.

Platt, Robert, M.D. Demr

*Public Health, v. Medicine*

*Russian*

Birkett, G. A., M.A. Liv. Lectr.

*Spanish*

[Hughes Lectr

Birch, J. N, B A Lond.

de Fenn, Beatriz, L. ès L.  
Barcelona Asst. Lectr.

*Technology, Fuel*

Wheeler, R. V., D Sc Manc Prof.

Batley, W. A, M Sc Manc Lectr.

Wigginton, R, B Sc. Lond.,  
A R C S Lectr

Beet, A E, B Met Demr.

Rees, W J., B.Sc. Tech  
Lectr. in Refractones.

Mott, R A, M Sc. Leeds  
Research Asst.

*Technology, Glass*

Turner, W. E. S., O B.E., D.Sc.  
Lond., M.Sc. Birm. Prof.

Cousen, A, M.Sc. Lond, A.R.C.S.,  
A I C. Lectr.

Howes, H. W., M.Sc. Tech  
Asst. Lectr. & Demr.

*Research Assts :*

Dimbleby, Violet, M.Sc.

Winks, F., M.Sc. Tech.

Starkie, David, M.Sc

*Zoology*

Cannon, H. G., M.A. Camb., D.Sc.  
Lond Prof.  
Grove, A. J., M.A. Camb., D.Sc.  
Birm Lectr.

Medicine (for subjects of first 2  
yrs.—Anat., etc., v. *supra*)

*Dermatology*

..... Lectr.  
2 Clinical Teachers.

*Diseases of Children*

Leader, H., M.B. Lond. Lectr.  
4 other Clin Teachers

*Dis. of Ear, Nose, and Throat*

Kerr, W. S., M.B., C.M., F.R.C.S.  
Edin.  
2 other Clin Teachers.

*Diseases, Infectious*

Williams, E. H., M.D. Brus,  
D.P.H. Lectr.

*Diseases, Mental*

[Lectr  
Vincent, W., M.D., B.S. Durh.  
1 other Clin Teacher.

*Forensic Medicine*

Carter, G., M.B., Ch.B. Manc,  
D.P.H. Lond. Lectr

*History of Medicine*

Wilkinson, G., B.A., M.B., B.C.  
Camb., F.R.C.S. (Lectr. in  
Aural Anat) Lectr.

*Medicine*

Hall, A. J., M.A., M.D. Camb,  
F.R.C.P. Prof  
Naish, A. E., M.A., M.B., B.C.  
Camb., F.R.C.P. Lectr  
Barnes, A. E., M.B. Lond, M.B.,  
Ch.B., F.R.C.P. Lectr.  
Skinner, E. F., M.A., M.B., B.C.  
Camb., F.R.C.P. Tutor  
4 other Clin Teachers.

*Obstetrics and Gynaecology*

Phillips, Miles H., M.B., B.S.  
Lond, F.R.C.S. Prof.  
King, W. W., M.B., Ch.B. Bris.,  
F.R.C.S. Lectr.

Stacey, J. E., M.D., B.S. Lond.,  
M.B., Ch.B., F.R.C.S.

Lectr. (Gyn Anat).  
1 other Clinical Teacher.

*Ophthalmology*

Hay, Percival, M.D. Edin. Lectr.  
3 other Clin. Teachers.

*Pathology, v also Surg*

Douglas, J. S. C., M.A., D.M.,  
B.Ch. Ox., M.Sc. Birm

Joseph Hunter Prof  
Wilson, J. B. Ferguson, M.S.  
Lond., F.R.C.S.

Lectr (Surgical P) and  
Asst. Cur of Path.  
Museum

Gleave, Humphrey H., M.B.,  
Ch.B. Leeds Lectr.

Tingle, Clara D., M.D. Demr.

Kirk, Florence S., M.B., Ch.B.  
Glas, D.P.H. Camb Demr.

Guest, D., M.B., Ch.B. Demr.

Edington, J. W., M.D., D.P.H.  
Edin Dir of P.H. Bact Lab

Blakelock, J. H., M.Sc., M.B.,  
Ch.B. Asst Bacteriologist.

Yates, A. G., M.A., M.D. Edin.  
(Lectr. in Med. Anat)

Demr. in Med Path.

*Pharmacology*

Mellanby, E., M.A., M.D. Camb.,  
F.R.C.P., F.R.S. Prof

Harrison, D. C., B.Sc. Lond,  
Ph.D. Camb., A.I.C. Lectr.

6 Research Assts.

*Public Health*

Wynne, F. E., M.B., B.Ch. Dub.,  
D.P.H. Manc Prof.

Rennie, J., M.D. Aberd., D.P.H.  
Demr.

*Radiology*

Grout, J. L., F.R.C.S. Edin.,  
D.M.R.E. Camb. Lectr.

*Surgery*

[Prof.  
Connell, A., Ch.M., F.R.C.S. Edin.

Simpson, G, F.R.C.S.	Lectr.	<b>Dental Science</b> , v. also Met
Cuff, A., B.A., M.B., B.C. Camb., F.R.C.S.	Lectr.	Law, W J, L.D.S., R.C.S. (D Anat and Physiol) Lectr.
Finch, E F, M D, M S. Lond, F.R.C.S., Asst. Cur. of Path.		Froggatt, G. H, M.R.C.S., L R C P, L D S., R.C.S. (D. Mech. and D Surg.) Lectr.
Museum and Lectr. in S. Path.	Lectr	Stokes, P. S., L.D.S., R.C.S. (D. Surg) Lectr.
Mouat, T B, M D, Ch M Edin, F R C S	Tutor	Hull, J, L D S (Dent Surg) Asst Lectr
4 other Clin Teachers.		
<i>Tuberculosis</i>	[Lectr.	
Rennie, J, M D. Aberd., D P H.		Watson, C T., L D S., R.C.S. (Orthod and Operative Dent Surg). Lectr.
<i>Vaccination</i>		Barron, D C, M D., Ch B Edin. (Med. for Dent. Students) Lectr
Chisholm, J, M B, Ch B Edin, F R C S. (and Tutor in Ob- stetrics)	Lectr.	Skerritt, J. H, L.D.S., R.C.S. (Op. Dent Surg) Lectr.
<i>Anæsthetics</i>		Adams, J., M.B., B.Ch. Anæsthetist.
Holroyd, J B H, M R C S, L R C P		Woodcock, R, L D S, R C S Demr (Dent Hist)
Mart, W D, M R C S, L R C P.		2 other Clin Dental Teachers.
Birks, F J, M B, Ch B		
Robertson, R. K, M A, M B, Ch B		<b>Adult Education</b>
Willey, H L, M B, B Ch		Tutors · 6 members of the Staff and 8 others.

## AFFILIATED INSTITUTIONS

BARNSELY TECHNICAL SCHOOL, SCUNTHORPE CENTRAL SCHOOL AND EVENING TECHNICAL SCHOOL, LINCOLN MUNICIPAL TECHNICAL SCHOOL, AND CHESTERFIELD TECHNICAL COLLEGE Students proceeding from "Affiliated Institutions" to the Univ to take courses for an Honours degree or Associate-ship in Engineering or Metallurgy may receive certain concessions.

## GENERAL INFORMATION

University College, Sheffield, incorporated by Royal Charter in 1897, was in 1905 merged in the University of Sheffield constituted by Royal Charter in that year. The city being an important centre of steel, electro-plate, glass, and other manufacturing industries, and in the heart of an extensive coal-mining area, students of Engineering, Metallurgy, Mining, Fuel Technology, and Glass Technology have exceptional opportunities

**LIBRARY**, 87,000 vols. and pamphlets, including collections of books on alchemy and early history of chemistry (J. Spear Parker's), facsimiles of Greek papyri (J. H Moulton's), literature relating to Polychæte worms (A. T. Watson's), and seventeenth-century tracts, plays, etc. (Sir Chas. Firth's); 352 current periodicals. Also Special Applied Science and Glass Technology departmental collections.

**RESEARCH DEPARTMENT LABORATORIES** include Engineering (mech., elec., civ., and mining), with power-plant, air-compressors, hydraulic appliances,

testing machines, special apparatus for high temperature and repeated stress testing, the testing of cement and concrete and for measuring earth pressures, high-speed steel tool-testing lathe, etc., the machine-tool branch being a special feature; Jonas laboratory specially equipped for researches in connexion with materials; Edgar Allen laboratory specially equipped for electrical and magnetic research work, laboratories equipped with alternating current and direct current motors and generators, apparatus for magnetic, photometric, and meter testing; high-frequency oscillographs; wireless laboratory; Electro-tech. (lighting, traction, power transmission, mining, electro-chem.), all provided with continuous and alternating currents, provision being made for 12 different combinations for parallel-running, Flame-proof testing laboratory in Mining Department for testing electrical apparatus, Metallurgical, with plant for experimental melting of steel, including 2-ton Siemens open hearth furnace;  $\frac{1}{2}$ -ton electric arc furnace, cupola, Kjellin induction furnace, and Ajax-Northrup high-frequency induction furnace, crucible steel-melting house, and equipment for thermal, micrographic, X-ray, and other physical investigations; specially equipped laboratory for electro-deposition of metals, Non-Ferrous, equipped for the lighter Sheffield trades, Glass Technology, large-scale furnaces and equipment for melting and working glass and laboratories specially fitted up for systematic research on it, Fuel Technology, including an experimental gas-producer, run in connexion with the steel-melting furnace of the metallurgical department, coke-testing apparatus, and specially equipped laboratories for research on coal, coke, and gaseous explosions.

**OBSERVATORY** with  $6\frac{1}{4}$ " equatorial telescope. **HOSPITALS** available for clinics include 2 general (820 beds), 3 special (917), and Mental Hospital (1860 beds)

**FACULTIES.** (1) Arts, (2) Pure Science, (3) Medicine (including the Dental Department), (4) Law, (5) Engineering (Depts. of Mech., Elec, Civ., and Mining E., Fuel Tech., Glass Tech.), and (6) Metallurgy (Ferrous and Non-Ferrous). Deans: (1) Prof. Black (Modern History), (2) Prof. Wynne (Chemistry), (3) Prof. Douglas (Pathology), (4) Prof. Trotter (Law), (5) Prof. F C Lea (Mech. Engineering), (6) Prof. Desch (Metallurgy). There is a University Training College Department for Teachers for elementary, secondary, and continuation schools. *Department of Glass Technology.* The Department is unique in being the only specialized department devoted to glass in any Univ. in the Empire or U.S.A. Opportunities of research into the theory of the vitreous state and into problems of glass technology are well provided for in a series of special laboratories and in a large glass-melting department capable of producing experimental glasses in quantities from a few grams to 120 lb. *Faculty of Metallurgy:* The courses in Metallurgy include, in addition to the ordinary subjects of a metallurgical training, special instruction in the magnetic properties of steel. Post-graduate courses are arranged for graduates in Pure Science or in Metallurgy.

**MATRICULATION.** See Appendix XX.

**DEGREE COURSES** 3 yrs.—B A (with Honours in Archt—5 yrs, including 2 in an Architect's office), B Sc, LL.B, B Met. (3 yrs.' evening courses may be taken by students of 20 yrs. of age in lieu of the 2nd and 3rd yrs.' day courses), B.Eng. ("Sandwich" course 4 yrs), B Sc.Tech. ("Sandwich" course 4 yrs.); B.Eng. Honours and B Sc.Tech Honours, 3 yrs. after passing Intermed Examn.; 5 yrs. (including 3 in the Univ.)—M.B., Ch.B.;  $5\frac{1}{2}$  years—B D.S. Graduates of a Univ. of the U.K. who wish to qualify for B.A. or B.Sc. with Honours, or LL.B., need, under certain conditions, only attend courses for 2 yrs., if they have pursued a course for 2 yrs. at some approved institution.

Graduates of a Univ. of the British Empire who wish to qualify for B.Met., B Eng., or B.Sc.Tech with Honours need, under certain conditions, only attend courses for 2 years (for B.Eng., B.Sc.Tech. or B.Met. pass degree, one year) if they have pursued a course for 2 years at some approved institution.

Attendance on approved courses at a Univ. or Coll. recognized for the purpose may be accepted as equivalent to such courses in the Univ. The Univs. of Paris, Caen, Besançon, Grenoble, Leipsic, Freiburg, Göttingen, Tübingen, and Giessen have been recognized in the Faculty of Arts, and the Univ. contributes towards expenses of undergraduates spending a term there.

A Secondary Schools Council, including, in addition to members of the Univ. staff, representatives of local education authorities and school staffs, keeps the Univ. in touch with secondary educn

**HIGHER DEGREES.** Obtainable by Bachelors of 1 yr's standing—M.A., M Sc., LL.M., M Eng., M Sc Tech, M.Met., M.D., Ch.M., M.D.S.; 5 yrs.—Litt.D, D.Sc., LL.D., D Eng., D Sc.Tech, D.Met.; open to graduates in Arts of any Univ. of the U K after 2 yrs., to graduates of Faculties other than Arts after 3 yrs., of advanced study or research in Sheffield—M.A.; open to graduates in Science of any Univ. of the U.K. after 2 yrs. of advanced study or research in Sheffield—M.Sc.; Ph D, v p. 18.

**DIPLOMAS.** Archit., 5 yrs. (including time spent in an Architect's office); Modern Lang. Teaching (graduates in Arts or others of similar attainments in the Lang.), 1 yr. course, Educn. (after graduation), 1 yr. (special facilities for Pedagogical research); Domestic Science, 2 yrs, L.D.S., 4 yrs.; Glass Technology, 3 yrs. (for those with 2 yrs' practical experience, 2 yrs.); Associateship in Engin., 3 yrs. (Works Pupils and Evening students, 4 yrs.); Associateship in Iron and Steel or Non-Ferrous Metallurgy, 3 yrs (evening students, 4 yrs), Mining, 3 yrs' full-time course or 4 yrs.' "Sandwich" course (1st year, full-time at the University, October to June inclusive; other years 6 mos in Colliery and 6 in Univ., exemption from first yr. obtainable through examn. The Dipl. enables a student to sit for the examn. for a colliery manager's certif. after 5 yrs' total training, including the time spent in the Univ.), Fuel, 4 yrs. (for those with 1 yr.'s experience in a Works Fuel Dept., 3 yrs); exemption from first yr. in special cases.

*Certificates* in Architecture (3 yrs.); Works Pupils in Engineering (3 yrs.); Electricity applied to Mining (2 yrs. Saturday afternoons); Glass Technology (3 yrs.).

**FEES.** Matricn £2. Registr. 21s. or 25s. Tuition for degree courses (approximate). B A, £23. 15s. p.a; B Sc., £30 p.a., LL.B., about 11 gs. p.a., B.Eng, B.Met, B.Sc Tech. (Glass or Fuel), 37½ gs p.a.; "Sandwich" course for B.Eng, 4 yrs., £29. 10s. p a.; M.B., Ch.B., £190 for 5 yrs.' course, including hospil fees, B D S, £225 for 5 yrs.' course including Mech. Dent. Examns., Interm, £2, Final, Pass Degree, £2; Honours, £3 (M.B., Ch.B. or B D S examns, £6 each of 3). Degree Fee, £5.

**SCHOLARSHIPS, ETC, FOR GRADUATES.** Sorby Research Fellowship (administered by Royal Society) for research in Sheffield Labs., about £500 p.a. for 5 yrs., renewable; Alired Tongue Scholp, £100 for 1 yr. for research in Engin., Met., or Chem.; George Senior Fellowships, £125 p.a., 2 offered annually for research, one in Engin. and one in Met.; 4 Styring Research Scholps., £100 p.a. for research in ferrous and non-ferrous metals; Cutlers' Company Scholp., £100 p.a. for 2 yrs; 2 Glass Research Fellowships, £175 and £200; Mechanics Institute Scholp., £50 p a. for 1 yr., together with fees for courses taken by the holder, for research in one of the Departments of the Univ.; Frederick Clifford Scholp., £50 p.a. for 2 yrs., for research in one of the Departments of the Univ.;

Ezra Hounsfield Linley Post-graduate Scholp., £75 to £100 p.a. for 1 yr., for research in Engineering or Metallurgy; Town Trustees Fellowship, £75 p.a. for 1 yr., for research in one of the Departments of the Univ.

Herbert Hughes *Travelling Scholarships* in Spanish, £25 each, are for one month of Study in Spain during the long vacation.

RESIDENCE, ETC. Stephenson Hall, for men, fees per session, £90. Univ Halls for women, Oakholme, Tapton Cliffe, and Endcliffe House, £55 to £76 per session. A list of supervised Lodgings is maintained; board and lodging cost from 30s. to 50s. per week. Athletics ground, 15½ acres. The Union Rep. Council takes a leading part in the Social life of the Univ. Separate Students' Unions for men and women.

There is an OLD STUDENTS' assocn. which publishes periodically lists giving addresses, occupations, honours, etc.

UNIVERSITY EXTENSION work includes Tutorial classes, Free Extension Lectures, Collaboration (for Adult Educn Lectures) with the Sheff. Educn. Committee.

*Evening Classes* are conducted under the direction of the Senior Lecturer in Mechanical Engineering, in General Science, Engineering, Metallurgy, Mining, Fuel, and Glass Technology, Building and Manual Training, during the 6 months Oct. to April 24 additional lecturers and teachers are employed on this work besides the regular staff. For notes on the extent to which these classes are recognized as qualifying for degrees, etc., v. *supra*—Degrees, Diplomas.

Evening Classes are also provided in French, Russian, Spanish, Philosophy, Economics, Secretarial Practice, Acctey., Law, Music, and Archit.

PUBLICATIONS. *Calendar* (Oct), 5s; *Floreamus*, a Chronicle pubd. at end of each term, annual subs, 2s (the 12 completed vols. give a full history of the Coll and Univ, with portraits, etc); Annual Report in Nov; Faculty and Training College Prospectuses; Scholarships pamphlet.

## THE YEAR 1927-28

BENEFACTIONS Miss Lillian Hovey, bequest of £200 for a scholarship for a woman medical student; £100 from Dr. W. S. Kay for a medal in Mental Diseases; Dr. W. M. Hicks, F.R.S., £300 4 per cent Victory Bonds for the purpose of supplementing the endowment of the Basil Hicks Lectureship Fund founded by him.

NEW BUILDINGS. The Gymnasium was opened on May 16, 1928, and the Pavilion on the University Athletics Ground on May 18, 1928.

AFFILIATION Chesterfield Technical College has been affiliated to the Univ. to provide facilities whereby students proceeding from that Institution to the Faculty of Engineering or the Faculty of Metallurgy of the Univ may under certain conditions receive concessions in respect of courses successfully completed by them at the College. Accrington Grammar School was approved for the Intermed. Examn in Mathematics, Physics, and Chemistry, at entrance.

RESIGNATIONS G. E. Linfoot; H. St. John Harrison; H. N. Fieldhouse, appointed Asst Professor of Hist. at the Univ. of Manitoba; F. G. Tryhorn, appointed to the Chair of Chemistry at Univ. Coll., Hull, Dr. S. J. Cowell, appointed to the Chair of Dietetics, Univ of London; Dr. H. H. Emmerson; F. O. Hunt; A. Cousen.

FOREIGN STUDY. Scholps. were awarded to 3 students to enable them to spend part of the summer vacation in Spain; leave was granted to students



to attend lectures during the Easter Term at Paris (1), at Caen (4), at Gottingen (2).

HONORARY DEGREES. *D.Sc.*—H. H. Dale, C.B.E.; A. J. Hall; Sir Frederick G. Hopkins; Sir Thomas Lewis.

STUDENTS. Full-time: total, 681, including 110 graduates. Part-time: total, 1617, including 20 graduates.

DEGREES. M.A., 39; B.A., 58; M.Sc., 20; B.Sc., 46; M.D., 1; M.B., Ch.B., 12; M.Eng., 5; B.Eng., 14; M.Met., 1; B.Met., 4; LL.D., 1; LL.M., 1; LL.B., 1, Ph.D., 5.

# UNIVERSITY OF WALES, CARDIFF

VISITOR AND PROTECTOR—H.M. THE KING.

CHANCELLOR—H R H. THE PRINCE OF WALES.

PRO-CHANCELLOR—The Hon W N BRUCE, C B , LL.D

VICE-CHANCELLOR—for biennium ending Aug 31, 1929, Principal  
A H. TROW, D Sc., University College of South Wales and Mon-  
mouthshire, Cardiff.

WARDEN OF THE GUILD OF GRADUATES—FRANCES MARY REES, B A

CLERK OF THE GUILD OF GRADUATES—Prof. H LEWIS, M A.

TREASURER OF THE GUILD OF GRADUATES—F. E REES, B Sc

DEAN OF THE FACULTY OF MEDICINE—Prof. A W SHEEN, C B E ,  
M S , F R C S

DEAN OF THE FACULTY OF THEOLOGY—Rev Prof T W CHANCE,  
M A , B D

REPRESENTATIVE IN PARLIAMENT—ERNEST EVANS, B A , LL.B

REGISTRAR—D BRYNMOR ANTHONY, M C , M A , University Registry,  
Cathays Park, Cardiff.

SECRETARY TO THE COUNCIL—JENKIN JAMES, O.B E., M A

## CONSTITUENT COLLEGES

UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH.

UNIVERSITY COLLEGE OF NORTH WALES, BANGOR

UNIVERSITY COLLEGE OF S WALES AND MONMOUTHSHIRE, CARDIFF

UNIVERSITY COLLEGE OF SWANSEA.

## ASSOCIATED THEOLOGICAL COLLEGES

UNITED THEOLOGICAL COLLEGE, ABERYSTWYTH AND BALA. At *Aberystwyth* Principal—H. Harris Hughes, B.A , B D., Prof of *Christian Doctrine and Ethics of Religion* Other Profs J Y Evans, M.A., B D., *Church Hist* , E N. Jones, M.A , *Hebrew and O.T. Exegesis* ; W. Porter, M A., Litt.D., *New T. Greek* ; W R Williams, M.A., *Philosophy and History of Religion* ; R Morris, M A., B.D, Registrar. At *Bala* Principal and Prof of *Past Theol.*—David Phillips, M A.

BANGOR, The Baptist and Congregational Jt. School of Univ. Theol. Studies. Principal J. T. Evans, M.A., B.D., *Hebrew and O.T. Exegesis* ; Principal J. M. Jones, M.A Ox , B A Lond., *Ch. Hist.* , Professors J. Jenkins, M A., B.Litt , *N.T. Greek* , J. E. Daniel, B.A. Ox , *Christ. Doct.*, *Phil of Religion*.

BRECON, The Memorial Coll. Principal—T. Lewis, M.A., B.D., Prof. of *Hebrew*. Other Profs. : D. M. Edwards, M.A., D.D., *Christian Doctrine and Philosophy of Religion* ; Jos. Jones, M A , B D., *N.T. Greek*, etc. ; John Evans, B.A., *Ch. Hist.*

CARDIFF, The S. Wales Baptist Coll. Principal—..... Prof. of *Philos., Bib. and Hist. Theol., etc.* Other Profs. . T. W. Chance, M.A., B.D., *Ch. Hist.*; J. Griffiths, B.A., B.D., *Greek Test.*

CARMARTHEN, The Presb. Coll. Principal—J. Park Davies, M.A., B.D., *Hebrew and Old T. Exegesis.* Other Lectrs. . M. B. Owen, B.A., B.D., *Ch. Hist.*; J. O. Stephens, B.A., B.D., *Christian Doctrine and Phil. of Religion*; Emrys Jones, B.A., B.D., B.Litt., *New T. Greek.*

## GENERAL INFORMATION

The Univ. was founded by Charter, 1893. The teaching for initial degrees is undertaken by the constituent and associated Colleges, and matriculation in the Univ. is open only to students of those Colleges: in the case of an associated Theological College, only to students who are graduates of an approved University. The Univ. prescribes conditions under which it awards initial degrees to students of the Colleges and conducts the final exams. An Academic Advisory Committee deals with the conditions on which School Leaving certificates are accepted by the Univ. for matriculation, and as relieving a student from repeating in College work done in Secondary Schools, and with other matters lying in the borderland between School and Univ.

As the result of an inquiry held by a Royal Commission in 1916-1918, a Supplemental Charter was granted to the Univ. in 1920, which introduced many important changes, including reconstruction of the Univ. Court, a deliberative and legislative body, with 263 members, of whom a little over a half are representatives of Local Education Authorities; institution of a Univ. Council, as the executive and administrative body of the Univ., controlling the finance and distributing all the funds provided for Univ. education; provision of such funds from a penny rate levied throughout Wales and Monmouthshire, supplemented by an equivalent grant from the Treasury; larger freedom for the constituent Colleges (increased to four by the inclusion of Swansea) in the control of the Courses of Study and in the conduct of their own exams. for initial degrees, Univ. Examiners now taking part only at the final stages; development of a National School of Medicine in connexion with Cardiff College; new Boards for special studies, such as the Board of Celtic Studies and the Council of Music; Univ. Press Board; Univ. Extension Board providing an enlarged scheme for extra-mural instruction; Appointments Board.

DEGREES B.A., M.A., D.Litt., B.Sc., M.Sc., D.Sc.; B.Tech.; B.Mus., M.Mus., D.Mus.; LL.B., LL.M., LL.D., M.B., B.Ch., M.D., M.Ch.; B.D., D.D.; Ph.D.

For a first degree 3 yrs. of study are required; in Technology 1 yr. is in an approved technological institution. The degree in Med. is only open to a graduate in Arts or Science of some British or approved colonial or foreign Univ.; the period of qualification for it is 6 yrs., of which the last 3 may be spent in an approved School of Med. in the U.K. or in one of the Univs. of Paris, Berlin, Vienna, or the Johns Hopkins Univ. The degree of B.D. (3 yrs.' course) is post-graduate; the scheme of study is pursued in one of the Associated Theol. Colls. (v. *supra*) or at the School of Theology of the University College of N. Wales, Bangor. The scheme of study for an Honours degree in Arts, Science, or Law ordinarily covers 4 years. The M.A., M.Sc., and LL.M. may be awarded to graduates of other Univs. approved for this purpose who pursue a scheme of research for at least 2 yrs. in one of the constituent Colls. As regards Ph.D., see p. 18.

*Diplomas* in Educn. (post-grad. Diploma), Public Health (D.P.H.); Tuberculous Diseases (T.D.D.)

**FEES.** Matricn., £2; examns. qualifying for Bachelor degree, from £6:15s; Master, £8; Ph.D., £12; higher Doctorates, £20.

**SCHOLARSHIPS, ETC., FOR GRADUATES.** The Univ. has funds amounting to over £4000 p.a. for the encouragement of research. In addition to 5 Fellowships (annual value £200 each) tenable for two years, it awards 12 studentships on the nomination of the Colls. to students who after graduation engage in work preparatory to research for 2 yrs. Grants to assist research into Welsh language, institutions, etc., are made, preferably to members of the Univ., from T. Ellis Memorial Fund (capital £1563). Grants, prizes, or exhibitions to encourage advanced study are made, for research in Law from the Sir Samuel Evans Memorial Fund (capital £1060), for research in tuberculosis from the Cecil Prosser Research Scholarship Fund (capital £2000), and for research in problems connected with midwifery from the Ewen Maclean Scholarship Fund (capital £3000).

**PUBLICATIONS:** *Calendar* (Oct.), 4s.; *Diary*, 2s. Courses in Div. and in Mus., and Matricn. and Degree Regns, free. Matricn. Examn. Papers, 6d. B.D. Questions, 6d. Degree Papers, Arts 6s., Science 5s. Bulletin of Board of Celtic Studies, 5s. Pubns. of the Council of Music. The best account of the early history of the Univ. is in *The University of Wales*, by W. Cadwaladr Davies and W. Lewis Jones (F. E. Robinson & Co.). The introduction to the Report of the Royal Commission on Univ. Education in Wales, 1918, 1s., contains a valuable summary of the history of the University up to 1918.

## THE YEAR 1927-28

**GRANTS AND BENEFACTIONS.** Non-recurrent grants of £4250 and £4000 were made by H.M. Treasury to the Univ. Coll. of Wales, Aberystwyth, and to the Univ. Coll. of Swansea respectively. £500 from Prof. Beatrice Edgell to provide a Brough Prize in Logic or Philosophy.

**NEW DEVELOPMENTS.** A scheme of interchange of teachers of the constituent Colleges was instituted. Trefecca College, Talgarth, Brecknockshire, was recognized as an Adult School. A Millenary celebration of Hywel Dda was held at Carmarthen, and a commemoration fund was started to aid studies in Welsh law and history. New regulations were adopted for the Tuberculous Diseases Diploma and for the Diploma in Education (to take the place of the Certificate in Education).

**RESIGNATION.** Prof. A. J. S. Pippard, Prof. of Engin. at the Univ. Coll. of South Wales and Monmouthshire, on appt. to the chair of Mech. Engin. at Bristol.

**HONORARY DEGREES.** *D.D.*—The Rev. E. Morgan. *LL.D.*—H. G. Lewis, T. Jones, Sir Harry R. Reichel, H. Brackenbury, Sir Thomas Lewis, Sir Robert Philip, W. W. Chipman, Sir George Syme, F. H. Martin. *Litt. D.*—Prof. E. Jenks, Provost E. J. Gwynn. *M.A.*—D. T. Davies, H. H. Hughes.

**STUDENTS.** Full-time: total, 2721; graduates, 99; preparing for first degree, 2035. Other full-time students, 587; part-time, 210.

**DEGREES.** B.A., 301; B.Sc., 169; B.Mus., 2; LL.B., 4; M.B., B.Ch., 7; B.D., 2; M.A., 26; M.Sc., 26; Ph.D., 12; D.Sc., 4.

# UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH

PRESIDENT OF THE COURT OF GOVERNORS AND OF THE COUNCIL—  
Lieut.-Col. DAVID DAVIES, M.A., LL D, M P

VICE-PRESIDENTS—SIR A GARROD THOMAS, M D, LL D, D L ;  
D C. ROBERTS, Esq., J P

PRINCIPAL—H. STUART JONES, M A, D Litt., F B.A

VICE-PRINCIPAL—Prof. EDWARD EDWARDS, M A

GENERAL SECRETARY—J. L. NEWBON, A.L.A.A.

ACADEMIC SECRETARY—G J WALKER

SENIOR LIBRARIAN—J. D. WILLIAMS, B A

LIBRARIAN—Miss A CUMING, M A. (N.U.I.), B Sc Ox

## PROFESSORS, LECTURERS, ETC.

<i>Agriculture</i>		Beddows, A R, B Sc.	Asst.
Griffith, J. J., B Sc.	Prof	Milton, W. E J, N D A.	
Phillips, R., M.Sc.	Lectr.	<i>Agric Chemistry</i>	
County Organizers, 7		Fagan, T. W, M A. Camb.	
Instructress in Dairying			Indpt. Lectr.
Advisory Officers.		Davies, R O., M Sc.	Lectr.
Ashby, A. W, M A. (Hon) Ox.,		<i>Arabic</i> , v. Hebrew	
Agr Economist and Lectr.		<i>Botany</i>	
Howell, J. P.	Asst Advisor	Robinson, Wilfrid, D.Sc Manc.	Prof.
Jenkins, J. R. W., M.Sc., En-			
tomologist		Newton, Mrs L., Ph D	
Davies, D. W., B Sc, Mycologist.			Lectr & Demr
Thomas, S B, M.Sc		Carter, P. W., M.Sc.	Asst. Lectr.
Dairy Bacteriologist.		<i>Chemistry</i>	
<i>Agric Botany</i>			[Prof
Stapledon, R G, M B E., M A.		James, T C, M A Camb, D Sc.	
Camb.	Prof.	Bury, C R, B A, B Sc Ox.	
Sampson, Kathleen, M Sc Lond			Lectr.
	Lectr	Hudleston, L. J., B.Sc. Lond.	
.....	Asst. Lectr		Lectr.
Plant Breeding Station		Asst Lectrs & Demrs	
Stapledon, R. G.	Director	Rees, Miss A G	Pt-time Asst
Investigators :		Williams, D. Matthew, Ph D.	
Jenkin, T J., M.Sc.		<i>Classics</i>	
Williams, R. D, M Sc		Mountford, J F, M A. Ox.,	
Jones, E. T., B Sc.		D.Litt. Birm. Prof. (Latin).	
Jones, Martin G., M.Sc.		Jenkins, E. D. T., M.A. Ox.	
Davies, Wm., M Sc			Indept. Lectr. (Greek)

Bensly, E., M.A. Camb.

Spl. Lectr. (Med. and  
Renaissance Latin).

Baillie-Reynolds, P. K, M.A. Ox.

Lectr. (Ancient Hist)

Asst Lectr. :

Dowler, J H, B A

*Economics and Pol. Science*, v  
also Politics

Lewis, E A, D Sc. Lond, M A,  
D.Litt (Lectr in Palæog)

Prof

Rees, J Morgan, M A. Lectr

George, Percy, B A., B.Sc.  
Asst Lectr

*Education*

Chapple, C R, M.A Lond. Prof

Roberts, Dorothy E, M A Lectr

Pinsent, A., M A Lond, B Sc  
Lectr.

Hughes, John, M.A. Asst. Lectr.

Jones, Gwenan, M A, Ph D Minn

Asst Lectr

Green, G H, M A, B.Sc, Ph.D  
Lond, B.Litt Ox.

Asst Lectr

Rowlands, M. Gertrude „ „

Jones, Dan R, M.A, A R.C.A.,  
A M C Art Master

3 Instrs in Physical Training and  
in Needlework.

*English Language and Lit*

Atkins, J. W. H, M A Camb and  
Lond. Rendel Prof

Winstanley, Lihan, M A Manc  
Lectr

Garmonsway, G N, M A Camb  
Earnshaw, J., M A Asst. Lectrs.

*French Lang. and Lit and  
Romance Philol.*

Barbier, J L A., L ès L Paris  
Prof

Thomas, A B, D de l'U. Lyon,  
M.A (Lectr in Phonetics)

Lectr

Phillips, Eva M., M A.

Asst. Lectr.

Parfitt, G. E., B A. Pt-time Asst

*Geography and Anthropology*, v.  
also Ocean.

Fleure, H. J., D Sc. Prof.

Whitehouse, W E, M Sc Lectr.

Harris, Susan, F R G.S  
Asst Lectr.

*Geology* [Prof.

Pugh, W. J, O B E, D Sc, B A.

Challinor, J., M.A. Camb. Lectr

Platt, J. I., M.Sc. Manc  
Asst Lectr

*German*

Evans, David, M A Indpt Lectr.

Rees, Heima, M A. Asst Lectr.

Hauert, Herr Part-time Asst

*Hebrew and Arabic*

..... Prof.

*History*, v also Classics

Edwards, Ed, M.A Camb and  
Lond Prof

..... Lectr

*History, Colonial* [Prof

Roberts, T Stanley, M A. Camb

*Law, English*

Levi, T A, M A, B C L Ox,  
LL B Lond, Barr -at-Law

Prof

Bailey, S J, M A, LL B Camb  
Spl Lectr.

Asst Lectrs :

Lewis, T Ellis, Ph D, B A, LL B

Wing, R A, B A, LL B

*Logic and Philosophy*

Jones, W Jenkyn, M A Camb,  
B A Lond Prof

Davies, Dan, Ph D Glas, M.A  
Asst Lectr

*Mathematics, Applied*

Schott, G A, B A Camb, D Sc  
Lond., F.R S. Prof.

Sutton, W. G. L., M A Ox.

Asst. Lectr.

Lewis, Thos., M Sc. Asst. Lectr.

*Mathematics, Pure*

Morton, V. C., M A Ox

Indpt. Lectr.

Williams, D R, M A Asst Lectr.

<i>Music</i>	<i>Welsh</i>	[Prof.
de Lloyd, David, Mus D. Dub , B A , Mus B Prof.	Parry-Williams, T. H , M.A. Wales, B Litt. Ox., Ph.D. Freib.	
Clements, Charles, B.Mus., F R C.O. Asst. Lectr.	Jones, D. J., B.A. Asst. Lectr.	
10 Assts.	Lewis, Timothy, M.A Manc., B.A. (Celtic Philol and Palæog.) Reader.	
<i>Oceanography</i>	<i>Welsh Literature</i>	
Jenkins, J Travis, D.Sc Lond , Ph D Kiel, D.Sc. Hon Lectr.	Jones, T. Gwynn, M A. Prof.	
<i>Palæography</i> , v. Econ.	<i>Zoology</i> , v. also Ocean.	
<i>Philosophy</i> , v Logic	Laurie, R. D., M A. Ox. Prof.	
<i>Physics</i>	Watkin, E. E , Ph.D. Asst. Lectr.	
Owen, Gwilym, M A Camb , M Sc. Manc , D.Sc. Liv. Prof.	Lewis, E. Aneurin, M Sc. Part-time Asst. Lectr. and Field Officer ( <i>Helminthology</i> ), Ministry of Agr., Research Inst. of Parasitology, at- tached	
Asst. Lectrs & Demrs.:	Jenkins, J R W , M Sc.	
Davies, R. M , M Sc.	Spl Lectr. in Entomology.	
Jones, I C , M Sc.	<b>University Extension</b>	
Jones, G M , B Sc.	Morgan, Herbert, M.A. Ox., B.A. Director of Extra-mural Studies.	
<i>Politics, Internal.</i>	16 Tutors.	
Webster, C K , M A Camb , Litt D. Wilson Prof		
Herbert, S., M.A Lectr		

## GENERAL INFORMATION

Founded in 1872, the College was incorporated by Royal Charter in 1889, and is a constituent College of the Univ. of Wales. Its main building and Students' Hostels are on the sea front, facing Cardigan Bay.

**LIBRARIES.** College, 50,000 vols., including the collection of Sir John Rhys. Access to the National Library of Wales, founded in 1907, 420,000 vols., rich in Welsh and other Celtic books and MSS **MUSEUMS** · Archæol., Bot., Chem., Ethnog., Geog., Geol., Zool., Gallery of Crafts. The Chemistry **LABORATORIES**, erected in 1907, are the most complete in Wales. Agric. Expl. and Plant-breeding Stations and Training Farm.

**FACULTIES.** Arts, Science, Law, Music. *Departments*: Agriculture, Teaching (Elem. and Secondary), Art and Handicraft, Extra-mural, Phonetics. A special feature is the ample provision for instruction and research in Agriculture. A Chair of International Politics was founded in 1919.

**DEGREE** courses in Arts, Science, Law, Music.

*College Diploma* courses : Assoc. in Agric., 3 yrs. ; Dairying, 2 yrs. ; Music, 2 yrs. ; Geography, 1 yr. ; Animal and Human Biology, 1 yr. ; Art, 1 yr. ; Handicraft, 1 yr. ; Social Hygiene, 1 yr.

Courses in Science meet the requirements of the first year of Medical study and the examns. of the Pharmaceutical Society

Post-graduation courses (1 yr.) for Teachers (Elem. and Secondary), and in Agric.

**RESEARCH** work is systematically carried on in Agric Botany and Agric.

Chem. (whole-time Research Botanist, Chemist, Entomologist, Mycologist, and Dairy Bacteriologist), Chem., Geol., Geog., Physics, Zool., English, Welsh, Philos., Maths., Economics, History.

FEES for tuition in Arts, £15 per session; Science, £20; Registration, £1; Research students, 6 to 10 gs.

SCHOLARSHIPS FOR GRADUATES 4 for Research, value £27 to £150, open to Colonial and Foreign students as well as to students of the College. See also under UNIV. TRAVELLING SCHOLARSHIPS for visiting Continental institutions, average, £20 to £30; total, £500. RESEARCH STUDENTSHIP, £200 in Dept of International Politics. Sir John Williams Research Studentship for Welsh Studies.

RESIDENCE. Board and lodging at Women Hostels: 50 to 62 gs. per session. Accommodation in Hostels for 300 women.

MEDICAL ATTENTION is provided for by a capitation fee, about 5s., payable by all men students each session.

UNIVERSITY EXTENSION. Local lectures and short courses in Agric. subjects; Travelling Dairy School; Tutorial Classes in Econ, Lit., Hist, Welsh Psychology, etc.; Summer School annually in Aug.

AFFILIATION. The Coll is recognized by Ox. and Camb, and by Edin. and N.U.I., by the R C P. and S Eng and the R.C.S.I., the F.P. & S. Glas., the R.C.P.I. and the R C S I, the Inst. Chem, and the Surveyors' Instn.

PUBLICATIONS: *Reports* (Jan), 1s. 6d.; *Aberystwyth Studies*; Students' Magazine, *The Dragon*; Inaugural Lectures.

## THE YEAR 1927-28

BENEFACTIONS. The late Sir John Williams, Bt., Welsh Studies, £45,287 15:1, Sir Laurence Philipps, Bt, Plant Breeding Station, £1000; Messrs. Nitram, Ltd, Plant Breeding Station, £300; Anonymous, Plant Breeding Station, £250, Major J. C. Harford, Plant Breeding Station, £200; Hon. Samuel Vestey, Zoology Department, £150, E. and J Davies Bryan, Music Scholarship, £50, other gifts, £110.

Series of PUBLIC LECTURES were delivered by Prof F Soddy; Harley Granville Barker, Prof. O. T. Jones, F.R.S.; Prof. C. K. Webster, and others.

About 50 awards amounting to upwards of £500 were made out of the TRAVELLING SCHOLARSHIP FUND to students and Members of Staff to enable them to visit Continental countries during the Easter and Summer Vacations.

RESIGNATIONS. S. G. Jones, D.Sc.; C. W. Davies, M Sc; Miss A Woodward, M.A.; Miss J. Evans, B.A, O. G. Sutton, B.Sc.; J. Cherry, B.A.; N. Tunstall, B Sc.; R Herzog; Miss M. Ellis.

STUDENTS. Full-time, 693; graduates, 26; preparing for first degree, 515; other full-time, 152. Part-time and occasional, 14. Pre-matriculation, 43. Extra-mural, 532.

DEGREES OBTAINED. B A., 79; B Sc., 43; LL.B., 5, M A., 7, M.Sc, 8; Ph D, 7.



# UNIVERSITY COLLEGE OF NORTH WALES, BANGOR

PRESIDENT—H. N. GLADSTONE.

CHAIRMAN OF THE COUNCIL—H. R. DAVIES, M.A., J.P.

PRINCIPAL—D. EMRYS EVANS, M.A., B.Litt.

SECRETARY AND REGISTRAR—W. P. WHELDON, D.S.O., M.A., LL.B.

BURSAR—RICHARD WILLIAMS.

WARDEN OF THE WOMEN STUDENTS—MURIEL ORLIDGE DAVIS.

## PROFESSORS, LECTURERS, ETC.

### *Agriculture*

White, R. G., M.Sc. Leeds Prof.  
Roberts, E. Jones, M.A., M.Sc.

Lectr.

Roberts, J. A. F., B.A. Camb,  
B.Sc.

Hon. Lectr. (*Animal-breeding*)

Montgomerie, R. F., B.Sc.,  
Ph.D., M.R.C.V.S.

Vet. Advisory Officer.

Ashby, A. W., M.A.

Spl. Lectr. in Ag. Econ.

Hickson, Miss P.

Dairy Bacteriologist.

Currie, J. F.

Supervisor of Seed Po-  
tato Scheme

Lectrs. in Bldg. Constn., Book-  
keeping, Vet. Hygiene.

County Staffs: 5 Organizers.

Instructors in Cheesemaking,

Dairying, Horticulture and

Poultry-keeping.

*Agric. Botany* [Indep. Lectr.]

Roberts, R. Alun, Ph.D.

Whitehead, T., M.Sc., Ph.D.,  
A.R.C.S.

Adviser in Plant Pathology.

*Agric. Chemistry* [Prof.]

Robinson, G. W., M.A. Camb.

McLean, W., B.A., B.Sc.,

A.R.C.Sc.I., A.I.C. Lectr.

Williams, Rice, M.Sc. Asst. Lectr.

2 Res. Assts.

*Agric. Entomology* [Adviser.]

Davies, W. Maldwyn, B.Sc.

*Applied Electricity and Hydro-  
Electric Engineering*

Williams, W. E., B.Sc. Lectr.

Marriott, E. N., B.Eng. Shef.

Asst. Lectr.

*Botany*

Thoday, D., M.A. Camb. Prof.

Davey, A. Jane, M.Sc. Lond.

Lectr.

Woodhead, N., M.Sc. Vict.

Asst. Lectr.

*Chemistry*

Orton, K. J. P., M.A. Camb,

Ph.D., F.R.S., F.I.C. Prof.

Watson, H. B., Ph.D., A.I.C. Lectr.

Soper, F. G., D.Sc., A.I.C.

Lectr. in Physical C.

Asst. Lectr. & Demr.:

Bradfield, A. E., Ph.D.

*Classics*, v. also Theol.

Hudson-Williams, T., M.A., D.Lit.

Lond. (Greek) Prof.

Thomson, H. J., M.A., D.Litt. St.

And. (Latin) Prof.

Lees, Miss M. E., M.A. Vict.

(Latin) Lectr.

Fisher, W. H., B.A. Camb.

Asst. Lectr.

*Economics*

Higgs, H., C.B., LL.B. Lectr.

*Education*

Archer, R. L., M A Ox. Prof.  
 Paterson, Alice, M.A. Edin, Ph D.  
 Jena Lectr.  
 Thomas, Miss M. Lectr.  
 Hamilton, E. R., M.A., B.Sc.  
 Lectr  
 Williams, Ivor, B.Sc. Asst. Lectr.  
 Instructors in Drill, Handwork,  
 and Rural Sc

*English Lang and Lit*

Wright, H G, M A Manc Prof  
 King, R. W, M A. Lond Lectr.  
 Davies, C, M A Wales Asst. Lectr.

*Forestry*

Thomson, T., M.Sc. Lectr.

*French and Rom Philol* [Prof

Fynes-Clinton, O. H., M A. Ox  
 Cariou, Mlle. H, L ès L. Lektor

*German and Teut Philol.*

Purdie, Edna, M A Liv, D Lit  
 Lectr.

*History*, v. also Theol [Prof.

Lloyd, J E, M A, D Lit. Ox.  
 Dodd, A. H, M.A. Ox. Lectr.  
 Richards, T., M.A., D.Litt Wales  
 (Mod. Welsh H) Reader  
 Thomas, J. Alun, M A Wales,  
 Ph D. Lond Asst Lectr

*Logic and Philosophy*, v. also  
Theol.

Gibson, J, M A Camb. Prof  
 Lewis, Miss G. A, M A Lectr  
 Stout, A. K., M.A. Ox. Asst. Lectr.

*Mathematics*

Berwick, W. E. H., M A, Sc D  
 Camb Prof.  
 Phillips, E. G., M.A. Camb, M Sc.  
 Manc. Asst. Lectr  
 Shepherd, W. M., M.Sc. Lond  
 Jr. Lectr.

*Music*

Davies, E. T., F R C O. Director.

Hamilton, E. R., M.A., B.Sc.

Spl. Lectr.

5 Executants and Teachers.

*Philosophy*, v. Logic and Theol.

*Physics*

Owen, E. A, M A Camb., D.Sc.

Lond, F Inst.P Prof.

Mainstone, P A, M Sc Lectr

Asst Lectr. & Demr :

Jones, H. Irvon, B.Sc.

*Semitic Languages*

Robertson, E, M.A., B.D., D.Litt.

St. And. Prof.

Evans, Principal J. T., M.A., B.D.

Spl. Lectr.

*Theology*, v. also Semitic

Spl. Lectrs. :

Jones, Principal J. M, M.A.  
 (Church Hist)

Jones, G. Basil, M A (Philos  
 Theism).

Daniel, J E, M A. (Philos. of  
 Religion)

Jenkins, J. (Gwili), M.A., B.Litt.

*Welsh*

Morris-Jones, Sir J, M A Ox,  
 LL D, D Litt Prof.

Williams, Ifor, M A

Prof of W Lit

Parry, R. W., M A Lectr.

*Zoology*

White, P J, M B Edin Prof.

Lowe, Miss E, M Sc Liv.

Asst. Lectr.

**University Extension**

Whole-time Lectrs Roberts,  
 R. Silyn, M.A ; Jones, E. J.,  
 M A Half-time Parry, R  
 W, M A., Thomas, J. A.,  
 M.A, Ph D Many other  
 members of the Staff give  
 single courses or combine in  
 giving a series.

**GENERAL INFORMATION**

This College, constituted by Royal Charter in 1885, was made a constituent College of the University in 1893. Until 1911 the Arts and the Science

Departments were all housed in an old roomy hotel, but in 1911 the Arts Departments and the Library were moved to new buildings on a site in the heart of the city of over ten acres given by the City Corporation. The Science Departments remained in the old buildings until 1926, when they were moved to the new Memorial Buildings.

**LIBRARIES.** General, 80,000 vols. (Theology a strong feature). Welsh, 15,000, including the largest and best-equipped collection of Welsh periodicals in existence. **MUSEUMS** include special collections of fish, shell-fish, and fishing gear, Welsh antiquities, and Roman finds from Segontium (Roman fort at Carnarvon). **FARM**, 675 acres, chiefly sheep pasturage. **Dairy**.

Special facilities are offered for research in Welsh Language and Literature, Political, Social, Economic, and Religious History of Wales, and allied subjects.

**COURSES.** B A degree courses include among others a "special scheme of study based on the idea of citizenship." There are courses in Theology for B D degree, and full courses for the B.Sc. in Agric. and Rural Economy, Forestry, Applied Electricity, and Hydro-Electrics, as well as in Pure Sc College *Diploma* courses in Agric. and in Estate Management (3 yrs), and in Forestry and Elec. Engineering (2 years). The Agric. course is recognized by the Surveyors' Instn. as qualifying for Students' Proficiency examn. Courses for College Certificates (2) in Music. Other courses: First year of Med. study; 1 yr. post-graduate course for Teachers (Elem. and Secondary); for Kindergarten Certif.—Elem. 1 yr., Higher 2 yrs and 1 term.

**FEES.** Registration, 1 g per session. Tuition, per session: Arts, £15; Science, £20; Medicine, 1st year (including lab.), £22; Post-graduate courses, non-lab., 6 gs.; with lab., 10 gs.; Agric., etc., diploma course, winter session, £15: 15s. (2 terms); Farm Practical Instruction, £5 (or 2 gs. a term). College societies (compulsory), £1. 8s

**SCHOLARSHIPS, ETC., FOR GRADUATES.** Several College awards ranging in value from £22 to £100, open to students of the College. Loan fund (£150) for helping poor students to complete courses; also University Studentships of £100 and Fellowships of £250. See under Univ.

**RESIDENCE.** Hostels for 35 men (£47 p.a.) and 180 women (£49-£61). Total cost of living in lodgings and tuition in Bangor, from £70 to £80 per session.

**UNIVERSITY EXTENSION, ETC.** Local lectures in Literature, Econ., and Agric.; small lending libraries, Tutorial and Preparatory Classes in six counties. The Advisers in Agriculture conduct experiments and give expert advice to farmers and others.

**PUBLICATIONS.** *Calendar* (Sept.), 2s. 6d.; *Students' Handbook*, 1s., *College Magazine*, one issue per term, 1s.; Prospectus free.

## THE YEAR 1927-28

**BENEFACTIONS.** Several valuable gifts to the Library, including many MSS. and books from Sir Harry R. Reichel and the late Dr. Owen Pritchard. Donations to meet deficit on the Memorial Buildings (new Science laboratories) reached a total of £11,709.

**NEW BUILDINGS.** A new Gymnasium has been erected at a cost of £1000, mainly for the use of students in the Training Department and the O.T.C. The women's hostels have been augmented by the completion of the block known as Caederwen, which will accommodate 40 women.

RESIGNATION. H. J. Curnow, Junior Asst. in Mathematics.

STUDENTS. Full-time: total, 555, including 82 graduates. Part-time: total, 32, including 2 graduates.

DEGREES. B.A., 68; M.A., 3; B.Sc., 35; M.Sc., 5; Ph.D., 2; D.Sc., 1.

UNIVERSITY EXTENSION. Tutorial Classes, 20, with 395 students, chiefly in Economics, Welsh literature, and industrial history, Extension courses, 3, with 82 students; preparatory classes, 11, with 226 students (Economics and Welsh). Many single lectures were given by members of the staff. The Ballard Mathews lectures were delivered by Dr. J. W. Mackail. The College and its hostels were used for summer schools and conferences of the W.E.A. and Trade Union Council, Welsh Language Society, and the vacation school in Theology.

## UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE, CARDIFF

PRESIDENT—SIR D. R. LLEWELLYN, Bart.

TREASURER—HENRY GETHIN LEWIS, LL.D.

PRINCIPAL—A. H. TROW, D.Sc. Lond., F.L.S.

REGISTRAR—D. J. A. BROWN.

LIBRARIAN—S. O. MOFFET, M.A. Manc.

### PROFESSORS, LECTURERS, ETC.

#### *Agriculture (Advisory and Research Staff)*

Rees, J., B.A., M.Sc. (A. Botany)  
Thompson, H. W., M.Sc. Leeds  
(A. Zool).  
Bisset, N., M.R.C.V.S. (Scot.)  
(Vet. Sc.).

#### *Anatomy*

[Prof.]  
McLaren West, C., M.C., M.B.,  
B.A.O., B.Ch., Sc.D. Dub.  
Webster, J. M., M.A., B.Sc. St.  
And., F.R.C.P. Edin.

Lectr. & Demr.

Everett, W., M.B., Ch.B. Edin.  
Demr.  
Burlend, T. H., M.A. Camb., B.Sc.  
Lond.

Lectr. (Histol. & Embryol.).

McSweeney, Evelyn H., B.Sc.  
N.U.I.

Demr. (Histol. & Embryol.).

#### *Archæology*

[Lectr.]  
Nash-Williams, V.E., M.A. (Keeper  
of Dept. of A. in Nat. Museum).

#### *Architecture*

Purchon, W. S., M.A. Lond.,  
A.R.I.B.A. Lectr.

#### *Botany*

McLean, R. C., M.A. Camb., D.Sc.  
Lond., F.L.S. Prof.  
Dickinson, S., D.I.C.  
Anderson, Violet L., B.Sc., Ph.D.  
Lond.

Asst. Lectrs. & Demrs.

#### *Chemistry*, v. also Physiol.

Jones, W. J., D.Sc. Manc., M.Sc.,  
F.Inst.P. Prof.  
Perman, E. P., D.Sc. Lond.

Asst. Prof.

Bassett, H. Ll., M.A. Camb.,  
B.Sc. Lond. (Organic C.)

Lectr.

## Asst. Lectrs and Demrs. :

Cullinane, N. M., M Sc, Ph.D.  
N.U.I.

Bowden, S. T, B.Sc.

*Classics*, v also GermanTillyard, H. J. W., M A Camb,  
D Litt Edin (Greek) Prof

Freeman, Kathleen, M.A. Lectr

Grundy, W W, M A. Camb, B A  
Dub Prof (Latin)Richardson, L. J. D., M A Dub  
Asst. Lectr

Parry, T, B A. " "

*Economics and Pol Science*

Roberts, W. J., M A. Ox.

Fulton Prof

Parris, S. C., B.Sc. (Econ) Lond.  
Asst. Lectr*Education*Phillips, W, M A Prof  
Wheeler, Olive A, D Sc. Lond,  
M Sc Prof

Jones, E. J, M A Lectr

Barke, Ethel M, M A Dub "

Hartley, Nora F, M A Manc "

Amos, A D., B Sc Lond "

Thomas, R, M.A. "

## Asst Lectrs :

Morris, Eliz M D., M A Lond

Sibley, G V

Greenlees, Evelyn M

*Engineering*Thomas, W. Norman, M.A, D.Phil.  
Ox, M Sc Birm Prof

Thomas, S, M Sc Lectr.

Foster, P. F, B Sc. Lond., M Sc.  
Lectr.Aston, K, B Sc (Tech) Manc.  
Asst Lectr. & Demr.Barlow, J. E, B Sc Manc.  
Asst. Lectr. & Demr.

A technical Asst.

*English Lang and Lit*

Brett, C, M A. Ox. Prof.

McLean, Miss C M., M.A. Edin.  
Lectr.Llewellyn, E. C., B.A. Ox. and  
Wales Asst. Lectr.*French*Watkin, M, M A, L ès L. Ren,  
Ph.D. Zur., O.I.P. Prof.Jones, P. Mansell, M A., B Litt.  
Ox Lectr.

Schneider, G, L. ès L. Lecteur.

Michandel, Marguerite, L ès L.  
Lectrice.*Geology*Cox, A H, D.Sc. Birm, Ph D  
Stras. ProfHeard, A., M.Sc. Manc., Ph.D.  
Lectr.Dingwall, Miss J M M, M A,  
B Sc Edin. Lectr.*German*

Lloyd, M. D. Idwal, M A. Lectr.

*Histology*, v. Anat*History*

Bruce, H, M A Ox. Prof.

Rees, Wm, D Sc. Lond, M A  
Lectr.

Whale, Miss G, B A. Asst. Lectr.

*Hygiene and Public Health*, v  
*infra**Law*

Davies, E, B C.L, M A. Ox. Lectr.

Evans, C, B.C.L., M.A. Ox  
Asst. Lectr.*Mathematics*

Livens, G. H., M A. Camb. Prof.

Taylor, D G, M A Camb. and  
Glas, D.Sc Glas.

Lectr. (Pure M.).

Hayden, H A, M.Sc. Lond., B Sc.  
Lectr.Pope, A H., M Sc. Lond  
Asst. Lectr.*Medicine*, v. *infra**Metallurgy*Read, A. A., D.Met. Sheff., F.I.C.,  
F.C S Prof.

Jones, W. R D., M.Sc. Lectr.

Handford, C., M.Met, Sheff. Lectr.

*Mining*

[Lectr.]

Price, S. W., A.R.S.M., M.I.M.E.

Chubb, C. S., B.Sc. Asst. Lectr.

*Music*

Evans, D, Mus D Ox. Prof.  
Lloyd, J. Morgan, Mus B Dub.

Lectr.

9 Teachers.

*Philosophy*

[Prof.

Scott, J. W., M A, D Phil Glas  
Thorburn, J M, M A, B.Sc Edin.,  
B A. Lond Lectr.

*Physics*

[Prof.

Robinson, H R, D.Sc Manc,  
Ph.D. Camb, F R S Edin.  
Dunbar, R. T., M.A, Ph.D Edin

Lectr

Young, C L, B Sc Lectr  
Harker, G.F.H, M A Camb Lectr.  
Crackston, J E, M Sc Camb,  
M Sc Liv Lectr

*Physiology*

Brown, T Graham, M D, D Sc  
Edin, F.R S. Prof.

Pryde, J, B Sc St And, M Sc.  
(Lectr in Physiol Chem)

Asst Lectr & Demr

Hemingway, A., M Sc, M B., Ch B.  
Leeds Lectr (Expl P).

Shaxby, J H, D Sc Lond,  
F Inst P

Lectr. (Special Sense P.)

Peterson, J. M., B.Sc. Aberd.

Asst. Lectr. & Demr

*Semitic Languages*

Robinson, T H, M A Camb,  
D.D Lond. Prof

*Welsh*

Gruffydd, W J, M A. Ox Prof

Williams, G. J., M.A. Lectr.

Parry, T, B A. Asst Lectr

*Zoology & Comparative Anatomy*

Tattersall, W. M, D.Sc Manc Prof.

Lloyd, J H., M Sc. Birm, F.Z.S.

Lectr.

Sheppard, Edith M., M.Sc., F.Z.S.

Lectr

**Medicine, Welsh National School**  
of (for subjects of first 2 yrs.  
—Anat., etc, v *supra*)

*Hygiene and Public Health*

Collis, E. L, M.A, M.D.

Talbot Prof of *Preventive Med*

Williams, E Colston, M D Lond.,

D.P.H Camb, F R C S Edin.

Lectr.

Picken, R. M. F, M B, Ch.B., B Sc.

Glas., D P H. Camb Lectr.

Morgan, W. Parry, M A, M D.

Camb., B Sc. Lond.

Lectr (*Bact. & Parasit*).

Sugden, J. H., M Sc Manc

Lectr. (*Hyg Chem*).

Buist, J J, M B.

Instr (Vaccination)

*Materia Medica and Pharmacology*, v. also Med.

Stevens, W Mitchell, M.D Lond.,

F.R.C.P. Lond. Lectr.

Beatty, J., M.A., M D Dub,

D.P.H. Asst Lectr.

*Medicine*

Kennedy, A. Mills, M D, Ch B

Glas. Prof., Dir. of Med Unit.

Davies, Ivor J., M.D, B S. Lond,

F R C P Asst \*

Evans, Abel, M.B, B.S. Asst.

Buist, J. J, M.B Lond

Lectr. (*Forensic M*).

Howell, A, M D Lond

Lectr. (*Dis. of Children*)

Davies, Daniel T, M.D. Wales Asst.

Beatty, J., M.A., M.D. Dub,

D.P.H. (Asst Lectr in *Materia*

*Med*) Lectr. (*Dermatology*).\*

Goodall, E, C.B.E, M.D,

F.R.C.P., B.S. Lond.

Lectr. (*Mental Dis.*).

M'Garrity, J., M D., D.P.H., Supt

of Instn in Fevers

Lewis, Cyril, M.D., C.M. (Edin) \*

\* On Staff of Infirmary and Recognized Clinical Teachers in the Med. School.

*Obstetrics and Gynaecology*

- Maclean, Sir Ewen J, M D, C.M.  
Edin., F.R.C.P., F.A.C.S.,  
F.R.S. Edin. Prof.  
Strachan, G. I, M D., Ch.B Glas.,  
F.R.C.S. Asst \*  
Collins, B. K. Tenison, M A, M.D.,  
B C. Camb, F R.C.S.E Asst.\*  
Adams, Mary I, B Sc, M B,  
B Ch, B A O Belf, D P H.,  
Asst.

*Pathology and Bacteriology*

- Dible, J. H., M B, Ch B, Glas,  
M R C P Lond Prof  
Duguid, J B, M D Aberd  
Lectr (*Pathology*)  
Morgan, W Parry, M.A, M D  
Camb, B Sc Lond  
Lectr (Bact)  
Mills, J, M D, Ch B Vict.  
Asst Lectr (Path).  
Duggan, Miss M M., M B, B Ch.  
Gough, J, M B, B Ch. Demrs.

*Surgery*

- Sheen, A. W., C.B.E, M.S Lond.,  
F R C S  
Prof & Dir of Surg Unit  
Hammond, T. E, F.R.C.S Asst.  
Haycraft, J B, M C, M B., Ch B.  
Edin., F R C S Asst.  
Rogers, L C, F R C S Edin. Asst.  
Cresswell, F. P S, M.B., B S,  
B Sc. Lond, F.R.C.S.  
Lectr (*Ophth*) \*  
Smith, S. Alwyn, D S O, O B F,  
Ch M Edin, F R C S. Edin.  
Lectr. (*Orthopædics*).

- Greaves, H. Gordon, M.B., B.Ch.  
Camb. Lectr. (*Anæsthetics*).  
Rhys, O. Ll, M D, Ch B. Edin.  
Lectr. (*V.D. and Radiology*).  
Evans, T. G, M D, B S. Lond,  
D M R E. Camb.  
Lectr. (*Physio-Therapy*) \*  
Evans, Miss Erne, M B Lond.  
Lectr. (*V.D*)  
Grant, J. W. Geary, F.R.C.S.\*  
Harries, D J, M D., B S. Lond.,  
D.Sc, F R C S.\* ‡  
Thomas, J. W. Tudor, M B, B S  
Lond, M B, B Ch \*

*Tuberculosis*

- Cummins, S. Lyle, C.B, C M.G.,  
M D, LL D  
David Davies Prof of  
Tuberculosis  
Powell, D. A, M D.†  
Brownlee, A, M D., F.R.C.S.,  
L D S, D P H.†  
Gilchrist, James C, M.D, Ch B †  
Hiley, Melville R, M R C.S.,  
L R C P.†  
Tytler, W. H., M.B, B.A.†  
Johnson, A. C, M A., M B, B C †  
Davies, W., M R C S., L R.C.P.† ‡

**University Extension**

- Tutors, 34 (including a few  
members of the College Staff)  
Joint Secy —D J. A Brown,  
Regr.

**ASSOCIATED INSTITUTIONS**

TECHNICAL COLLEGE, CARDIFF. Principal, C. Coles, B.Sc.

SOUTH WALES AND MONMOUTHSHIRE SCHOOL OF MINES, TREFOREST.  
Principal, George Knox, F.G.S.

\* On Staff of Infirmary and Recognized Clinical Teachers in the Med. School.

† On staff of K. Edward VII. Welsh National Memorial Assocn. and recognized teachers in the Med. School.

‡ On staff of City Lodge Hospital and Recognized Clinical Teacher in the Med. School.

Both Institutions join with the University College in granting Diplomas, v. *infra* : College Diplomas.

## GENERAL INFORMATION

Opened in 1883 and incorporated by Royal Charter in 1884, this is now one of the constituent Colleges of the Univ. The Medical School was opened in 1894, the Engineering School in 1896. New College Buildings, containing the Arts and Administrative Blocks and the Drapers' Company's Library, were opened in Cathays Park (wherein the Univ. Offices are also located) in 1909, the Sirnamu Jones Memorial Physical Research Laboratory in 1912. Physiological Dept. Buildings were completed and occupied in 1919, and formally opened in June 1921 by the Prince of Wales, who at the same time laid the foundation-stone of the buildings of the Dept. of Public Health and School of Preventive Medicine. The buildings of the Dept. of Public Health and School of Preventive Medicine were completed and occupied in January 1927. In Oct. 1921 the development of the Medical School into the "Welsh National School of Medicine" enabled provision to be made for complete courses for a Degree or other qualification to practise Medicine.

**LIBRARY** Drapers' Company's, 65,000 vols. **MUSEUMS**: Anat., Mat. Med., Path., Zool. The National Museum of Wales (Art, Archæol., Zool., Geol., Bot.) is located in an adjoining building. **LABORATORIES** Physical Research, with liquid-air plant, etc.; Engineering (including 100-ton testing machine); and usual Science and Medical teaching and Research labs. The Cardiff Royal Infirmary (between 400 and 500 beds), in which the final studies of the Welsh National School of Medicine take place, is within five minutes' walk of the College. Clinical facilities are available also in other local hospitals.

**FACULTIES** Arts, Science, Medicine (Welsh National School of Medicine). **Departments** Music, Applied Science and Technology, Teaching (Elem. and Secondary); Advisory and Research Dept. in Agric.

**COLLEGE DIPLOMAS** Engineering, Metalliferous Mining, Metallurgy; Welsh Lang. and Lit.; Economics and allied subjects; Music, Social Study and Training. In the Applied Science subjects the qualifying scheme of study covers 3 years, in the other subjects, 2 yrs. A Diploma in Biology is awarded after a one-year's course. A Joint Diploma in Coal Mining is granted by the Coll. and the S.W. and Monmouthshire School of Mines, 4 yrs.' residence being required. After a 4 yrs.' course students who desire to specialize in certain subjects can take a post-diploma course. A Joint Diploma in Mech. Engin., Marine Engin., or Industr. Chem. is granted by this Coll. and the Cardiff Tech. Coll. after a 3 yrs.' course.

**MEDICAL DIPLOMAS** Post-graduation courses are provided leading to the D.P.H. (1 year) and T.D.D. (Tuberculous Diseases) (3 to 6 months). Short courses are provided in Sanitary Science (leading to a Testamur given jointly by the Colleges and the Cardiff Technical College) (1 year), and in Midwifery for Midwives.

**SCHOLARSHIPS** (Prospectus obtainable from the Registrar). One of £60 is offered for research by a woman in any faculty, one of £50 (which may be increased by a bonus) for Science research. See also under Univ.

**FEES.** Annual Composition for tuition—Arts, £15; Science, £20; Music, £15; Applied Science, £20 (Non-associated Counties, £30); Medical, £25 to £35; Hospital practice, Perpetual Hospital ticket, £12. 12s.; Teacher Training, £15 to £20; Research, 6 to 10 gs.; Registration, 1 g. p.a.



**RESIDENCE.** 2 Hostels for women. Sessional Fees, £65 to £75. Board and lodging in the City can be obtained at about £2 per week.

**PHYSICAL WELFARE OF STUDENTS.** An Asst. Lectr. in Physical Training has been appointed, who also acts as College Adviser in Physical Training and Games.

**PUBLICATIONS.** *Calendar* (Feb.), 2s.; *Students' Handbook*; *Cap and Gown. Information regarding Courses and Careers open to Students of Science.*

## THE YEAR 1927-28

**BENEFACTIONS.** £2845 for Appeal Fund, which has now reached £132,878. £510 for Scholarship and Prizes, £90 for General Purposes.

**NEW BUILDINGS.** Physics and Chemistry Buildings nearly completed. South façade of College Buildings to be completed and used temporarily for Advisory and Research Department in Agriculture. New Buildings for the Medical Unit at the Cardiff Royal Infirmary completed and occupied.

**RESIGNATIONS.** Prof. A. J. Sutton Pippard, appointed Prof of Civil Engineering at the University of Bristol; R. T. Evans; James Buchanan, appointed Director of Physical Training for the Province of Bengal; Miss E. G. Flight; J. F. Baker, M.A., on appointment in the Department of Scientific and Industrial Research; Dr. W. B. Crow, appointed Head of the Department of Biology in the Huddersfield Technical College; Dr. Herbert T. Evans.

**DEATH.** Dr. A. M. Jones.

**STUDENTS.** Full-time: total, 1058, including 178 graduates. Part-time: total, 121, including 18 graduates

**DEGREES OBTAINED.** B.A., 115; B.Sc., 73; M.A., 13; B.D., 1; M.Sc., 4; Ph.D., 2; M.B., B.Ch., 10; Mus.Bac., 2.

## UNIVERSITY COLLEGE OF SWANSEA

**PRESIDENT**—F. W. GILBERTSON, LL.D.

**PRINCIPAL**—C. A. EDWARDS, D.Sc.

**REGISTRAR**—EDWIN DREW.

**LIBRARIAN**—OLIVE M. BUSBY, M.A. Lond.

## PROFESSORS, LECTURERS, ETC.

<i>Biology</i>		Ayling, E. E., M.Sc. Lond.
Mockridge, Florence A., D.Sc.		Asst. Lectr.
Lond	Lectr.	Hartshorne, N. H., M.Sc. Birm.
Rees, T. Kenneth, M.Sc.		Asst. Lectr.
	Asst. Lectr.	
Little, Percy A., B.Sc.	„ „	
<i>Chemistry</i>		<i>Classics</i>
Coates, J. E., O.B.E., D.Sc. Birm.,		Johnson, S. K., M.A. Camb. Prof.
M.Sc.	Prof.	Stevenson, J., M.A. Princeton,
		B.A. Camb
Hinkel, L. E., D.Sc. Lond.		Hill, H., M.A. Sheff. Asst. Lectr.
	Lectr. (Organic C.).	Ellis, T. I., M.A. Ox., B.A.
		Asst. Lectr.

*Education*

Cavenagh, F. A., M A Lond. Prof  
Jones, Idwal, M A. Asst Lectr.

*Engineering*

Bacon, F., M A Camb Prof  
Isaacs, R. G., M.Sc. Bris., B.Sc  
Lond Lectr. (Elec E)  
Fordham, A. A., B Sc. Lond.  
Lectr (Civ. E).  
Caswell, J. S., A.M.I.M.E.  
Asst. Lectr.

*English*

Thomas, W. D., M A. Ox., B.A.  
Prof  
Taig, T., M.A. Glas Asst Lectr.  
Westcott, Miss I M., B A Bris.,  
B.Litt Ox Asst Lectr.

*Geology*

Trueman, A E., D Sc Lond  
Lectr  
Stuart, A., M Sc Durh  
Asst Lectr

*History*

Hughes, E E., M A Ox., B A [Prof  
Medlicott, W. N., M A. Lond  
Asst Lectr  
Roberts, Glyn, B A. Asst Lectr

*Mathematics*

Richardson, A R., D.S.O., B Sc  
Lond, A R C S Prof  
Dienes, P., D Phil Buda Pest, D  
de l'U. Paris Lectr  
Wilson, R., M A. Ox. Asst Lectr.

*Metallurgy*

[Prof  
Edwards, C. A., D Sc Manc  
Taverner, L., A R S M Asst Prof  
Pfeil, L. B., D Sc. Lond., A.R.S.M.  
Lectr.

Jones, J C., M Sc. Asst. Lectr.  
Griffiths, Roosevelt, B Sc.  
Asst. Lectr.

*Modern Languages*

Williams, Mary, D. de l'U. Paris,  
M.A., O A. Prof  
Lectr.  
Diverres, P., M.A. Liv., D. ès L  
Rennes, O A  
Matthews, Evelyn, M A.  
Asst Lectr.

Pool, Miss E. M., M.A. Liv.  
Asst. Lectr.

*Philosophy*

Heath, A. E., M A Camb Prof.  
Aaron, R. I., D Phil Ox, M A.  
Asst. Lectr.  
Ewing, A C., D Phil Ox, M A.  
Ox. Asst. Lectr.

*Physics*

Evans, E. J., D Sc Lond, B.Sc.,  
A R C S Prof.  
Jones, W. Morris, M A. Camb.,  
M Sc Lectr.

*Asst Lectrs. :*

Wright, L., M Sc Sheff.  
Keeping, E S., B.Sc Lond, D.I.C.,  
A R C S

*Welsh*

Lewis, Henry, M A Prof.  
Lewis, Saunders, M A Liv  
Asst Lectr.  
Williams, Stephen J., M A.  
Asst Lectr.

*University Extension*

Thomas, P. S., M.A. Staff Tutor.

## GENERAL INFORMATION

Incorporated by Royal Charter, dated Jan 21, 1920, the College was made a constituent College of the Univ. of Wales under the terms of a Supplemental Charter granted to the Univ. on Aug. 13, 1920. The administrative offices, assembly hall, common rooms, and refectory, in addition to some of the Science departments, are accommodated in a mansion in Singleton Park, presented, together with 19 acres of land surrounding it and 15 acres for playing-fields, by the Corporation of Swansea, which also gave £50,000 towards the cost of Science buildings. Extensive laboratories have been erected in the Park,

on a site adjacent to the main College building, for the departments of Metallurgy, Engineering, Chemistry, and Physics, and a building has been erected in the Park to accommodate the Arts Departments and Library.

Situated in the heart of a district possessing a long and interesting metallurgical history and presenting an unrivalled variety of present-day metallurgical practice, the College offers exceptional advantages for preparation for professional careers in the metallurgical industry. The manufacturers of the district, who contribute largely to the support of the College, give the staff and students ample opportunities of keeping in close practical touch with manufacturing processes in the works. To ensure the closest possible co-operation with the local industries, Advisory Committees in Metallurgy and Engineering have been set up. All of the College laboratories (Physics, Chem., Geol., Biol., Metall., Engin.) are new and well-equipped. They include exceptionally fine experimental plant for instruction and research in combustion engineering.

**FACULTIES.** Science and Arts. Departments: Metallurgy and Engineering, and Training of Teachers (men and women) for Elem and Sec. Schools.

**COURSES FOR DEGREES, ETC.** Courses (3 years) for the degrees of the Univ. in Pure and Applied Science and Arts, also for the College diplomas in Metallurgy, in Engineering, and in Biology, and for the College Certificate in Geography, and complete Prelim. Science Course for medical students and classes in Law for articled clerks. Engineering students are expected, and, where necessary, helped, to obtain practical experience in works during the greater part of the summer vacation. Afternoon visits to works are arranged frequently throughout the session. Occasional lectures are given by experts on the business, administration and managerial side of industrial undertakings.

**FEES.** For tuition in Pure or Applied Science, £20; Arts, £15; Registration, £1:1s. p.a.; for Research, from 6 to 10 gs.

**RESIDENCE.** Hostel for women students. A list of Registered Lodgings is kept by the Registrar.

## THE YEAR 1927-28

**BENEFACTIONS.** Donations from £50 to £500 for research, etc. *Annual Subscriptions*, £5125.8:6.

**NEW POSTS.** Assistant Professor of Metallurgy. Lectureships in French and Welsh. Assistant Lectureships in Welsh, Philosophy, and Education.

**RESIGNATIONS.** G. M. A. Grube (Classics), on appointment as Professor of Classics, Trinity College, Toronto, Canada; T. H. Rowlands (Education).

**UNIVERSITY EXTENSION WORK.** 23 Univ. Tutorial Classes and 8 Prep. Classes, with 689 students. Four courses of 3 lectures each and many single lectures were given by members of the College staff in Swansea and elsewhere. The Coal Owners' Univ. Trust Fund provided for 12 short courses of lectures and a Tutorial Class.

**STUDENTS.** Full-time: total, 415, including 76 graduates. Part-time: total, 45, including 6 graduates.

**DEGREES OBTAINED.** Ph.D., 1; M.Sc., 9; B.Sc., 32; B.A., 51.

# UNIVERSITY COLLEGE OF THE SOUTH- WEST OF ENGLAND, EXETER

PRESIDENT—H R.H. THE PRINCE OF WALES and DUKE OF CORNWALL,  
K.G.

DEPUTY PRESIDENT—SIR HENRY Y B. LOPES, Bart., M A , D.L.

PRINCIPAL—JOHN MURRAY, M A. Ox

VICE-PRINCIPAL—Prof W. H LEWIS, M A Ox,

REGISTRAR AND SECRETARY—A. K. WOODBRIDGE

## PROFESSORS, LECTURERS, ETC.

### *Astronomy*

Lockyer, W. J. S., M A Camb.,  
Ph.D. Gott. Hon. Lectr.

### *Botany and Horticulture*

Sager, J. L , M A Camb , F L S  
Head of Dept.

Cumming, A. M , A.R C Sc I  
Asst. Lectr

### *Chemistry*

Lewis, W H , M.A Ox , F.I C. [Prof

Britton, H. T S , D Sc Lond ,  
D I C , F I C

Lectr in Physical C

King, Miss R , M Sc Lond Lectr  
Wray, E C

Lectr in Chem of Dyestuffs

Branscombe, D J. Asst Demr

### *Classics*

Fletcher, F , M A Ox Prof

Gordon, Mary L., M.A., B Litt  
Ox. Lectr

### *Commerce and Economics*

Sykes, J , M Com. Manc., M A.  
Leeds Head of Dept

Baster, A. S. J , B.Com , B Sc  
Econ. Lond. Asst. Lectr.

### *Cultural Evolution*

Dawson, C., M A. Ox Lectr.

### *Drama*

Staff of English Dept.

Horrox, Mrs. Lewis, L R A M.

King, P.

King, Mrs. C. M. de R.

Asst.

Asst.

### *Education and Psychology*

Watkins, S H., M A. Wales, Ph D.  
Leip. Prof

Walker, Miss A. J , M A Birm ,  
B A Lond Lectr

Mathias, Miss S Y., M A Liv ,

Asst. Lectrs

Cattell, R. B , B Sc Lond

Kaye, M , M A , Ph D. Lond

5 Assts and Pt.-time Lectrs. and

Instrs. in Teachers' Training  
Dept.

### *English*

Horrox, W. L., M.A. Camb. Prof.

Gollancz, Prof Sir I

Hon Leofric Lectr in Old E.

Wright, Miss B D , M.A. Edin.,  
Ph D. Lond. Lectr.

Martin Clarke, Mrs D. E , M A.  
Camb. Asst. Lectr.

Riley, W Arnold, L T C L

Asst Lectr. (Elocution).

### *Geography*

Lewis, W S , M.Sc. Lond ,  
F.R G S. Prof.

Clayden, A W , M A Camb ,  
F.G.S., Visiting Director.

Williams, D. T , M A Wales  
Lectr.

Howard, F. T , M.A. Ox

Lectr (Physical).

### *History*

Harte, W. J., M.A. Ox. Prof.

Wilkinson, B., M.A., Ph.D. Manc.  
Lectr.

Handcock, W. D., M.A. Brist  
Asst. Lectr

*Keltic* [Hon St Petrock Lectr.  
Jenner, H, M A. Wales, F.S.A.

#### *Law*

Morgan, J. G, M.A. Ox., LL B.  
Lond, Barr.-at-Law

Head of Dept & Director  
of Legal Studies

Roberts, C. H, M A Ox, Barr -  
at-Law Asst Lectr

Lectr. in Book-keeping, etc. .

Newman, C J

#### *Mathematics*

Brown, T. A., M A, B Sc Edin,  
B A Camb, F R S E Prof

Mallison, H V., M.A Camb,  
B Sc. Lond. Lectr

Unthank, H W, M A Camb,  
M A, B Sc Lond, F R A S.

Asst Lectr

Constable, K M, M A Ox

Part-time Asst

#### *Modern Languages*

Schopp, J W, M A Lond Prof

Wilson, Mabel, M A Dub, L. ès L.  
Paris Asst Lectr

Trudgian, Helen M, L ès L Paris  
Asst. Lectr.

Tallard, René, L. ès L. Paris Asst.

#### *Music*

Armstrong, T, M A, B Mus Ox.

Head of Dept

*Philosophy* [Hd of Dept

Levine, I., M A., D.Litt Glas.

*Phonetics* [Part-time Asst.

Woodbridge, Vera, L.R A M

#### *Physics*

Newman, F. H, D.Sc. Lond,  
A R C S, F Inst P Prof.

Searle, V H. L, M.Sc Lond.

Lectr.

Hoare, F E, B Sc Lond, A R C S.

Asst. Lectr.

*Politics, International* [Lectr.

Patterson, E. J, M.A Camb.

#### *Zoology*

[Lectr

Lapage, G, M Sc, M B, Ch B.

#### **University Extension**

Chairman of Committee for Ex-  
ternal Studies and Joint Hon.

Sec. for Tutorial Classes .

E. J. Patterson, M A.

## GENERAL INFORMATION

Founded 1865. Organized as University College, 1901. Incorporated 1922.

Classes in Arts, Science, Econ, Com., Law, Music, Agr., Hort, Pharm, prepare for London Univ. degrees. Courses are provided for Elementary and Secondary teachers, for entrance into Civil Service, and for the first year of Medical study. The Training Department is recognized as a Training College for Elem. and Secondary teachers. The Royal Albert Memorial Library (60,000 vols) and Museum are closely associated with the College, and the important collections of books and scientific material are freely available for advanced students of the College. A Dept. of Music was opened in Oct. 1924. A Dept. of Commerce was inaugurated at the Plymouth Technical School in Oct. 1926.

**AFFILIATION.** The College is affiliated to the Univs. of Ox. and Camb. It is recognized by the Camb. Special Board for Med. and the Conjoint Med. Board as a place of instruction in Chem., Physics, and Biol., and by the Institute of Chemistry for instruction in preparation for the Associateship Examn.

**TUTORIAL BOARDS** in Arts and Science and a Committee for Economics supervise students.

**FEES.** Sessional: Intermediate course, 16 to 20 gs.; final course in Arts,

21 gs. ; Science, £25 ; Law, 8 to 13 gs. ; Music (term), 6 gs. ; for foreign students (term), 6 gs. ; Research, 8 to 10 gs. ; Teachers' Training Dept. (Elem. and Sec.), £10 ; Registration, £1.

**RESIDENTIAL FACILITIES.** For *women*—(a) Hope Hall (50) ; (b) Bradninch Hall (60), sessional fee, £55-£60 ; (c) Sandford Hall (30). For *men*—(a) Reed Hall (70), sessional fee, £66-£70 ; (b) Grendon House (40), £60. All students not living at home must reside in one of the Halls of Residence.

**SCHOLARSHIPS** for graduates : one or two in Science awarded annually from Andrew Simons Scholarship Fund.

**PUBLICATIONS.** *Prospectus*, issued (free) in July ; the *Ram*, College Magazine (terminally) ; the *College Field Club Proceedings* ; Guild of Undergraduates' *Handbook*.

## THE YEAR 1927-28

**BENEFACTIONS.** The Appeal Fund originated in 1925 now amounts approx. to £190,000. Recent benefactions include : £25,000 by Mr. Washington Singer for endowment of Dept. of Chem. ; £41,000 by Mr. A. C. Ballard of Plymouth for Schol'ps ; £8000 by Mrs. Ida Sebag-Montefiore for a Readership in Geography ; £6000 by the Devon Patriotic Assocn. for Schol'ps and Prizes.

**DEVELOPMENTS** An extension to Hope Hall of Residence (Women), providing accommodation for thirty addtl. students at a cost of £9000, opened by H.R.H. the Duchess of York, Nov. 1927 Under a scheme of co-operation with Seale-Hayne Agricultural College to promote agric. teaching and research, a Lectr. in Zool. has been appointed for work at both Colleges Plans for the erection of a building on the existing foundations at Streatham to house the Depts. of Chem. and Physics and provide an Examn. Hall and Gymnasium have been provisionally approved, and building will commence as early as possible. A special course has been instituted for foreign students studying English during the normal session. A Summer School for Foreign Students was held in Aug. 1928, attended by 99 students, and promises to become an annual feature.

**NEW DEPARTMENTS AND POSTS.** Professorship of Classics ; Dept. of Biol. divided between Botany and Zoology ; tempy. Head of Dept of Biol. apptd. as perm. Head of Dept. of Botany, with creation of new Lect'ship for Zoology ; tempy. Head of Dept. of Econ. and Commerce appointed perm. Head ; Ida Sebag-Montefiore Readership (vacant) ; Lecturer in Physical Geol., Hon. Lectr. in the Chem. of Dyestuffs ; Lectr. in Cultural Evolution ; Coll. Proxenos.

**UNIVERSITY EXTENSION.** Eight courses of Extension Lectures were given during 1927-28, attended by 377 students. Tutorial Class students, 185.

**STUDENTS.** Full-time, 359, including 11 graduates ; preparing for first degree, 244 ; other full-time students, 104. Part-time and occasional, 122.

**DEGREES OBTAINED.** M.A., 2 ; B.A., 19 ; B.Sc., 15, B.Sc. (Econ.), 3.

# UNIVERSITY COLLEGE OF NOTTINGHAM

PRESIDENT—His Grace THE DUKE OF PORTLAND, K.G., G.C.V.O.

VICE-PRESIDENTS—Sir JESSE BOOT, Bart, Alderman E. HUNTSMAN  
(Chairman of Council); T L K EDGE, M.A., D.L., J.P.

PRINCIPAL—W H HEATON, M.A.

REGISTRAR—J. E. SHIMELD, F.C.I.S.

## PROFESSORS, LECTURERS, ETC.

### *Biology*

Holden, H S, D.Sc. Manc  
(Botany) Prof.

Lectrs and Demrs :

Bexon, Dorothy, M Sc Lond  
(Bot)

Ellis, Miss M, B Sc Wales (Bot)

Lister, H., B Sc. Liv. (Zool)

Hutchinson, Miss H. J (Physio-  
logy and Histology) Lectr

### *Chemistry and Metallurgy*

Kipping, F S, Ph D Mun, D Sc  
Lond, F R S Prof

Prideaux, E B R, M A N Z.,  
D.Sc. Lond Reader

Lectrs and Demrs :

Firth, J B, D Sc Manc

Trotman, S R., M.A. Camb

Watson, F S, M Sc. Manc.

Laxton, F C, B Sc Lond

Driver, J E., Ph D. Lond

Shaw, B D., Ph D Lond.

### *San. Sci. and Public Health*

Smith, E. Bertram, M.B., B.S.,  
D.P.H. Hon. Director.

Storer, E. J., M.R.C.S., M.R.C.P.  
2 other Lecturers.

### *Classics and Philosophy*

Granger, F S, D Lit., M.A. Lond.  
Prof.

Barker, E. P., M.A. Ox., D.Litt.  
Durh. (Classics) Reader

### *Economics and Commerce*

Kirkaldy, A W, M A, B Litt.  
Ox., M Com Birm. Prof.

Radford, A, B Sc Econ Lond.

Lectr. in E.

Howard, S C. Lectr in C.

Blythen, S, F C A, Prof of Acctcy  
8 Lectrs. in Insurance, Account-  
ancy, and C. Law.

### *Education*

Wortley, H. A S., M A Camb Prof.  
Lectrs. :

Newton, W. H, B Sc. Lond.

Moncrieff, Miss A, M A Edin

Becket, Miss E M., M.A. Lond.

Ward, Miss L. M

Adam, Anne K.

Lewis, M. M., M.A. Lond.

Dallas, Miss A. E. M., M.A., B.Sc.  
Edin.

5 Lectrs in Hygiene, Music,  
Needlework, and Art.

2 Lectrs in Phys Exercises.

### *Engineering and Technology, v. also Textiles* [Prof.

Bulleid, C. H., O.B.E., M.A. Camb.

Lectrs and Demrs. :

Cotton, H., M.B.E., M.Sc. Lond.  
(Dir. Sub-dept. *Elect. E.*).

Dickson, J. M., B Sc. Lond (M E.).

Wilde, J. H., B.Sc. (Eng.) Lond.  
(*Civ. Engin.*).

Golding, E W , B.Sc. Manc.

Robinson, J. G., Whit. Ex

Hutchins, H. J , Typog

Thompson, H H., Typog.

Ruddick, W.

38 other Technical Teachers

### *English*

Hewitt, R. M , M.A. Ox. Prof.

Griffiths, G. S , M A , B Litt. Ox. Lectr.

Selby, Miss A. Lectr

De Castro, Miss I., M A Ox Lectr

### *Geology and Geography* [Prof

Swinnerton, H H., D Sc Lond

Beasley, C. G , M A Lond

Lectr in Geog

Edwards, K C , B A Lond.

Lectr. in Geog

Clift, S. G., B Sc. Lond.

Lectr in Geol

### *Hebrew* [Lectr

Sanders, H. F , B A , D D Lond.

### *History*

Owen, L V D , M A Ox Prof

Brameld, Miss N , M A Lond

Lectr.

Wood, A. C., M A., B. Litt. Ox Lectr.

### *Law*

May, H. R D., M.A., LL B.

Director of Dept

Cursham, C (Real Property)

Lectr

Granger, Prof F S , D Lit , M A.

(Roman Law) Lectr.

Brameld, Miss N. M , M A. (Con-

stit Hist ) Lectr.

Howard, S. C (Book-keeping)

Lectr.

### *Mathematics*

Piaggio, H T H., M A Camb ,

D Sc. Lond Prof

Green, H. G , M A Camb Lectr.

Wickert, L A , B A Camb. Lectr.

Underwood, F., M.Sc. Lond Lectr.

7 other Lectrs.

### *Metallurgy*, v. Chem.

### *Military Science*

[Dir.

Pickbourne, Capt. H., B A. Lond.

### *Mining*

McMillan, W. H., B Sc Glas ,

M.I Min E. Prof

Watkins, W. G., M.I.Min.E.,

M I.Mech E Lectr

Whitaker, J W , Ph D., B Sc

Lond. Lectr.

Watson, J M R , B Sc Glas.

Lectr,

7 other Lectrs.

### *Modern Languages*

Weekley, E , M A Camb Prof.

### *Lectrs. :*

Peck, Mrs L (English Phonetics).

Bourdache, E , B ès L (French)

Guigou, Mlle M , L. ès L (French).

Schweizer, W R , Ph D (German).

Moroni, Mme (Italian)

Lavrin, Prof J. (Russian and

Slavonic).

Chamberlain, G L , M A Edin

(Spanish and Portuguese)

### *Music*

[Director

Johnson, B , B A , Mus B Camb.

Kirkaldy, Mrs. Tutor

### *Lectrs*

Henniker, I. , B Mus. Ox , F R.C.O.

2 other Lectrs

### *Pharmacy*

[Director of Dept.

Bentley, A. O , Ph C

Trease, G E , Ph C Lectr.

Driver, J E , Ph D Lectr.

Stather, Mrs. C

Turner, H. A , Ph.C Lectr

### *Physics*

Shaw, P E , M.A Camb., D Sc.

Lond. Prof.

Brose, H. L , Ph.D Reader.

### *Lectrs. and Demrs*

Franks, A. H., B Sc Lond.

Browning, Helen M., M Sc., Ph D.

Lond., F Inst.P.

Davy, N., B.Sc. Lond., A.R.C.Sc.

3 other Lectrs and Demrs. in

### *Telegraphy*, etc

### *Psychology*

Sprott, W. J. H., B.A.Camb. Lectr.



*Technology*, v Engin, Textiles.

*Textiles*

**University Extension**

Davis, W., M A Edin.	Prof.	Peers, Prof R, M A Liv.
Lectrs :		Hd. of Dept.
Barr, J, A T I (Yarn Testing).		Davy, H. N, M A Camb.
Trotman, S. R, M A. Camb (Dyeing and Bleaching)		Wright, G. G. Neill, B.A, B.Ed. Edin.
Boswell, W. E., A T.I. (Hosiery Manufacture)		Thompson, Miss E. G., B.A. Ox.
Buckley, G. H., A.T.I. (Hosiery Manufacture).		Buyers, J. A., M.A Glas.
Richardson, L. G (Dyeing and Bleaching).		Wells, F A, B Sc (Econ) Lond
10 Demrs.		Chambers, J D, Ph D. Lond
		Collie, Miss E. R, M A, B Ed., Ph D. Edin.
<i>Zoology</i> , v. Biol		3 Organizers.

ASSOCIATED COLLEGE: MIDLAND AGRICULTURAL AND DAIRY COLLEGE, Sutton Bonington. Subjects for the Final Examn. for the London B.Sc in Agric. are taken at this College, those for the Intermediate only being taken at Univ. College, Nottingham.

## GENERAL INFORMATION

The College was opened in 1881 The Faculties of Arts, Economics and Commerce, and Pure Science have now been transferred to the New Buildings at University Park. The Faculty of Applied Science remains at the Shakespeare Street Building The Free Public Library occupies the last wing of the latter building.

**COURSES** For London degrees in Arts, Econ., Com, Div., Pure Science, Law, Med, Agric., Engin., and Mining; Diploma of the College in Comm., Geog, Adult Education, Engin., Mining, Mine Surveying, Hosiery, Dyeing and Bleaching, Petroleum Technology (each 3 yrs.); Social Study Diploma (1 yr.); Bd. of Educn. Elem. Teachers' Certifis. and Cambridge Secondary Teachers' Diploma; L.D S.; Assoc'ships of the Insts. of Chem. and Physics; Colliery Manager's Certif.; Nat. Diploma of Inst. of Mech. Engineers; Law Society's Examns.; Civil Service Appointments; D.P.H.; Pharmacy Diplomas; L.R.A.M. and L.R.C.M.; Post-grad. and Research courses in Arts and Pure Science. Special English course for Foreigners.

*Evening Classes*, including some held on Thursday aftn. and Sat. morning and aftn, for London B.Sc., B Sc Econ, B Sc. Engin and Interm. Arts; St. And. L.L.A.; Comm., Dispensing and Pharmacy; Sanitary Science; Engin. and Technology; Mining; Textiles, including Yarn Testing, Hosiery, Dyeing.

The session for Day Classes is Sept.-July; Evening, Sept -April.

**FEES.** Tuition composition, per annum: Interm. or Degree courses in Arts, Div, or Econ—24 gs.; in other Faculties, or Diploma courses in Commerce, Engin., Mining, Mine Surveying, or for A.I.C. or A.I.P.—30 gs.; Diploma course in Geography—24 gs.; Social Study Diploma (complete course)—£10; L.D S.—18 gs.; Colliery Manager's Certif.—12 gs.; D.P.H. (complete course)—30 gs.; Pharmacy (complete course)—£30; Law—12 gs.; English course for Foreigners—£13.10s.; Registration fee, £1 p.a.; Union fee, £1: 5s. p.a.

Evening Classes, £1 per session.

RESEARCH SCHOLARSHIPS in Arts and Science of from £30 to £50 are awarded annually in Dec. Special facilities for research in all subjects.

RESIDENCE. Mapperley Hall (men), primarily for students in the Training Department. The Hostel, University Park (women). Registered lodgings, 30s. to 40s. Students are, when possible, placed with private families.

UNIVERSITY EXTENSION. Extra-mural adult education is organized as a department of the Faculty of Arts. The Head of the Dept., a whole-time professor, is assisted by 7 staff tutors, 2 organizing lecturers, and many part-time tutors and lecturers.

PUBLICATIONS. *Calendar* (Oct.), 1s.; *Day and Evening Prospectuses*, 2d.; *The Gong*, 3 times a year; *Diary* (Oct.), 1s.

## THE YEAR 1927-28

The New Buildings in University Park were opened on July 10 by H.M. the King. The Great Hall, given by Sir Jesse Boot, was completed for the opening ceremony. Sir Jesse has also borne the cost of the furnishing and equipment of the Library. The Nottingham Corporation founded a Chair at a cost of £20,000. Sir Jesse is giving the equipment of the Science Laboratories at an approximate cost of £8000. The new Women's Hostel, University Park, erected by Lady Boot at approximate cost of £40,000, and furnished by Sir Jesse Boot, will be open for students in the first week of November 1928. Further gifts of books, including the Meteorological Library of the late Lt.-Col. H. Mellish, who was a Vice-President of the College. During the summer of 1928 an appeal for an Endowment Fund was made in Nottingham and district. £133,500 has already been subscribed. This sum includes £10,000 each from two members of the College Council, Mr. H. F. Lancashire (since deceased) and Mr. George Spencer. Messrs J. B. Lewis & Sons, Ltd., £1000 to found a schol'p to perpetuate the memory of the late Mr. Lancashire.

The Delegacy for the Examination of Teachers in Training has been extended by the inclusion of the Hockerill Training College and the Norwich Training College. The Delegacy now consists of University College, Nottingham, Training Department, Derby and Lichfield Diocesan Training College; Lincoln Training College; Hockerill Training College, Bishop's Stortford, and Norwich Training College.

RESIGNATIONS. Miss A. E. Chesters, Lecturer in Botany; H. T. Gatskell, Staff Tutor in Economics, appointed Lecturer in Economics, University College, University of London; J. A. Buyers, Staff Tutor in Economics, appointed Lecturer in Economics, Glasgow University.

STUDENTS. Full-time, 492; graduates, 56; preparing for a first degree, 246; other full-time students, 190. Part-time and occasional, 287. Evening students, 2125; graduates, 28. Extra-mural: preparatory classes, 231; tutorial, 1052; extension, 353; one-year, 572; vacation courses, 80.

DEGREES OBTAINED. M.A., 1; B.A., 32; B.A.Econ., 1; B.Sc.Econ., 1; B.Sc., 36; B.Sc.Engin., 4; Ph.D. (Sci.), 1.

# UNIVERSITY COLLEGE, SOUTHAMPTON

VISITOR—H.R.H. THE DUKE OF CONNAUGHT AND STRATHEARN,  
K.G., K.P., K.T.

PRESIDENT—CLAUDE G. MONTEFIORE, M.A., D.D.

VICE-PRESIDENTS—ALEX HILL, M.A., M.D., F.R.C.S., Lord FORSTER,  
P.C., G.C.M.G.

TREASURER—W. F. PERKINS

PRINCIPAL—KENNETH H. VICKERS, M.A.

REGISTRAR—GEORGE GRANT, B.A.

## PROFESSORS, LECTURERS, ETC.

### *Botany*

Mangham, S., M.A. Camb Prof  
Loader, Miss F. M., B.Sc. Lond Lectr  
Sparshott, Miss E. N., B.Sc. Lond Demr

Hoare, Miss A. M., M.A. Lectr.  
Steel, Miss M. J., M.A. Edin. Lectr.  
Barfoot, S. D., B.Sc. Lond Lectr.  
Ricks, Miss E. M. Asst Lectr  
Dove, A. G.

### *Chemistry*

Boyd, D. R., D.Sc. Glas., Ph.D. Heid Prof.  
Smith, A. E. Clarence, M.A. Camb Lectr in Physical C  
Hardy, D. V. N., B.Sc. Lond Asst. Lectr.  
Colenutt, E. D., B.Sc. Lond Demr.  
Beale, C. H. Demr

Part-time Asst. Lectr. in Handicraft  
Thomas, J. F. Asst Lectr in Physical Training (Men)

### *Engineering, Civ and Mech*

Eustice, J., B.Sc. Lond, A.R.S.M., A.M.I.C.E. Prof  
Mann, E. E., M.Sc. (Eng.) Leeds Lectr  
Glover-James, H., Dip Eng Edin Lectr.  
Ford, G. P., Assoc U.C.S. Asst Lectr.  
Moyle, R. C., M.I.Mar.E Demr.

### *Classics*

Forsey, G. F., M.A. Lond Prof  
Dyson, G. W., B.A. Camb. Lectr.  
Norris, Miss M. K., M.A. Lond.

### *Economics and Commerce*

Ford, P., B.Sc. (Econ.) Lond. Lectr. in Charge.  
Hodgson, R. A., B.Com. Lond Asst Lectr.  
England, W. F.

### *Engin., Elec, v Physics*

*English* [Prof.  
Pinto, V. de S., M.A., D.Phil. Ox.  
Aubrey, Miss E. R., M.A. Lond Lectr  
Leishman, J. B., M.A. Ox Lectr.  
Crawford, S. J., M.A. Belf., B.Litt. Ox. Lectr.

### *Education and Philosophy*

Cock, A. A., B.A. Lond Prof.  
Dudley, G. G., B.A., LL.B. R.U.I. (Lectr. in Logic) Sr. Lectr.

### *Geography*

Rishbeth, O. H. T., M.A. Ox. Prof.

Miller, Miss F C , B A Leeds  
Lectr.

Tavener, L. E., B A Camb.  
Asst. Lectr.

Boswell, Miss K C , B A , B Sc.  
Lond Demr

*Geology and Zoology*  
Sherriffs, W. R., M.A., D Sc  
Aberd Prof.

Anderson, F W , B Sc Leeds  
Asst Lectr

*History*  
Lyttel, E. S., M A Ox Prof  
Horrocks, J. W., D Lit Lond  
Lectr

Rutherford, J , B A Durh , Ph D.  
Mich. Asst. Lectr

*Law* [Reader.  
Cook, W. G. H., LL D , M Sc

Asst Lectrs (part-time):  
Buchanan, R D , B A Camb.  
Groves, L. G., LL B Lond

*Mathematics, Pure and Applied*  
Watkin, E L , M A Camb Prof  
Casson, R., M.A Camb. Lectr.  
Trout, Miss A M , B A Lond  
Lectr

Maunsell, F G , B.A. Camb.  
Lectr.

*Music*  
Williams, D C., F.R.C.O.  
Lectr in Charge  
*Philosophy, v. Educn.*

*Physics & Electrical Engineering*  
Stansfield, H , D Sc Lond ,  
A M I E E Prof  
Spary, P G , B Sc Lond , M Eng.  
Sheff , M I E E , A M I C E.  
Lectr in Electrotechnics.

Tomlinson, H. J , B Sc Lond.,  
A I E E Lectr.

Carpenter, L. G , B A , B.Sc. Ox  
Lectr.

Chester, C E , B Eng Sheff ,  
A M I E E. Lectr.

*Romance Languages and German*  
Patchett, E W., M.A Camb Prof  
Lawton, H W , M A Wales,  
D ès L Paris Asst Lectr.

*Spanish*  
Hamilton, Miss G H.  
(and French) Lectr.

*Zoology, v. Geol.*

## GENERAL INFORMATION

Founded 1850 ; opened as the Hartley Institution, 1862. Incorporated as the Hartley University College in accordance with a scheme of the Board of Education, 1902.

The Library, 42,000 vols., includes the Cope collection of Hampshire books, pamphlets, and broadsheets.

Classes in Arts, Science, Commerce, Engineering (Civ., Mech., and Elec.), Music, and Law prepare for the degrees of the Univ. of London. It provides courses for Elementary and Secondary Teachers, for entrance into the Civil Service, the first year of Med Study, Pharmacy, Surveying, etc. It is recognized as a Training College for Elementary and Secondary Teachers. Through its Evening Classes (attended by upwards of 400 students) it performs the function of a Technical Institute. A Dept. of Law, instituted in 1923, is recognized as a Law School under the Solrs.' Act. The *Associateship* (Assoc. U.C.S.) implies, unless honorary, attendance at day or evening classes during at least one full session. *Diplomas* are awarded in Commerce, Engineering, Engin. Research, Geography, Advanced Geog , Law, and Music. Special Diploma in English for *foreign students*.

**ADMISSION.** The minimum age for both Day and Evening students is 16. Each full-time student is placed under the supervision of a member of the Staff, who acts as his Tutor.

**FEES.** The sessional fee is £25 for Courses in Arts, Commerce, and Music ; £32 for Courses in Science and Engineering ; and £30 for the Teachers' Diploma Course. Students whose parents are ratepayers within County Borough, Southampton—£18 : 15s , £22 : 10s , and £24 respectively. .

**SCHOLARSHIPS FOR GRADUATES.** One of £60 for Research. One of instruction fees in Educn. Loan fund for senior students.

**RESIDENTIAL FACILITIES.** South Stoneham Hall of Residence for men ; Warden—Prof. A. A Cock, B.A. Highfield Hall, a Hall of Residence for women ; Warden—Miss E. R Aubrey, M.A. South Hill, Hall of Residence for women ; Warden—Mrs. Ashdown.

**PUBLICATIONS.** *Calendar* (Sept.), free ; Halls of Residence Prospectus, free ; *Students' Magazine*, 6d. ; *Wessex Magazine* (June), 2s. 6d. annually.

## THE YEAR 1927-28

**BENEFACTIONS.** Gifts to the Appeal Fund during the session amounted approximately to £5000.

**PUBLIC LECTURES.** Ten Public Lectures were delivered at the College during the session by distinguished scholars.

**DEPARTMENT OF EXTRA-MURAL STUDIES.** A new Department of Extra-mural Studies has been established and a full-time Secretary (K. M Lindsay, B A ) appointed

**FOUNDATION LECTURESHIPS.** A Scheme of Foundation Lectureships has been initiated during the session, and three courses of lectures arranged for session 1928-29 Lectrs for 1928-29—In Arts . Prof D. Saurat, D. ès L., Paris ; in Sc. . A Egerton, M A , F R S., F.I C , and Prof C. K Ingold, D.Sc., F R.S.

**"WESSEX" MAGAZINE.** The first edition of *Wessex*, an annual College Magazine, was published in June 1928

**VISITATION.** On June 14 the College was honoured by a visit from its Visitor, H R H the Duke of Connaught, when he officially opened the George Moore Botanical Laboratories

**RESIGNATION.** V. T Harlow, History Lectr , appointed Keeper of the Rhodes House Library, Oxford

**STUDENTS.** Full-time . Total, 291, including 23 graduates. Part-time : total, 317, including 3 graduates.

**DEGREES OBTAINED.** B.A , 25 ; B.Sc , 20 , B.Sc.Econ., 1 ; B.Sc.Eng , 2 ; B.Com , 1.

## ST. DAVID'S COLLEGE, LAMPETER

The College was founded in 1827 for the purpose of affording to persons intended for the Ministry of the Church, especially in Wales, a sound and liberal education on the lines of that offered by the older Universities. Incorporated by Royal Charter, it is empowered to confer degrees in Arts and Theology. Residence for nine full terms and the passing of three exams conducted by examiners appointed by Oxford and Cambridge are requisite for B A, ten terms for B D.

Visitor—The Bishop of St Davids; Principal, and Prof of *Theol.* and *Greek*, Rev Canon Maurice Jones, D D. Profs — *Science*, J. C. Evans, M A, *Latin*, G W Wade, D D, *Engl* and *Phil*, H Walker, M A, LL D, *Welsh*, Rev R H Richards, M A; *Hebrew*, Rev A. E. Morris, B A, 7 Lectrs.

Students, 139, including 22 graduates.

DEGREES. B A, 36, B D, 3.

# THE SCOTTISH UNIVERSITIES

ST. ANDREWS  
GLASGOW

ABERDEEN  
EDINBURGH

## REPRESENTATIVES IN PARLIAMENT

SIR GEORGE A. BERRY, M.B., LL.D.; DUGALD M'COIG COWAN, M.A.;  
JOHN BUCHAN, LL.D.

IN CONSTITUTION these 4 Universities have, under the operation of the Univs (Scotland) Acts 1858 and 1889, been to a great extent assimilated. By the former Act 2 new bodies, called the Univ. Court and General Council, were instituted, by the latter a Committee of H.M.'s Privy Council was constituted, and an Executive Commission was created with extensive powers, which it continued to exercise till the end of 1897. These Commissioners issued ordinances, *inter alia*, for degrees, for the instruction and graduation of women, for special study and research, and for the constitution of a Students' Representative Council with power to petition the Senatus Academicus and the Univ. Court.

The *Chancellor* is elected (for life) by the General Council, of which he is President. He is empowered to nominate a *Vice-Chancellor*, who may confer degrees in his absence, but cannot discharge any other of his duties. The Vice-Chancellorship is at the present time held in each Univ. on the Chancellor's nomination by the *Principal*, who is appointed by the Crown (except in Edinburgh) and is President of the Senatus Academicus, and, in the absence of the Rector, of the Univ. Court. The *Rector* is elected every 3 years by the matriculated students. He is the official President of the Univ. Court.

The *University Court* consists of the Rector, Principal, the Lord Provost of the City (in St. And. the Provost of St. Andrews and Lord Provost of Dundee), and Assessors appointed by the Rector, Chancellor, Senatus, General Council, and (except in St. Andrews) Town Council. In St. Andrews the Principals of St. Mary's Coll. and Univ. Coll., Dundee, are also included in it. There is provision for the representation of other affiliated Colleges. The Court, a body corporate with full power to administer the property belonging to the Univ., is a Court of Appeal from the Senatus and has power, since the expiration of the powers of the Commrs. under the Act of 1889, to found new chairs with the approval of the Univs. Committee and make other ordinances with the approval of H.M. in Council. It has, *inter alia*, powers to appoint professors whose chairs are in the patronage of the Univ., examiners and lecturers, to define the nature and limits of a professor's duties under his commission, and to recognize for graduation purposes the teaching of any College or individual teacher, under the regns. providing for such recognition.

The *Senatus Academicus*, consisting of the Principal, the whole of the Profs., and certain Readers and Lecturers, is entrusted with the regulation and superintendence of the teaching and discipline of the Univ. The administration of the Libraries and Museums is entrusted to Joint Committees elected two-thirds by the *Senatus* and one-third by the Court.

The *General Council* consists of the Chancellor, the members of the Univ. Court, the Profs., such Lecturers and Readers as have held office for a year, and the Graduates of the Univ. It meets twice a year and may hold special meetings at the instance of the Chancellor. Proposed improvements in the arrangements of the Univ. must be submitted to the Council for their consideration

The General Councils of the four Universities elect three *Members of Parliament*.

**FACULTIES.** In all the Univs—Arts, Science, Divinity, Medicine. In all except St Andrews—Law. In Edin. only—Music. In Glas and Aberd—Engineering (Edin and St And. have departments and offer degrees in Engineering, although not a separate Faculty).

**TERMS.** The academic year is divided into three terms—Oct. to Christmas, Jan to latter part of March, April to end of June or early July.

**ADMISSION** (Appendix XX) The Regulations for admission to a graduating course in a Univ prescribe a Group Leaving Certificate of the Scottish Education Department showing passes in four subjects, one of these being Mathematics or Dynamics or Physical Science and another a language other than English. Two, at least, must be on the higher standard; and three on the higher standard will be required unless one of the passes is in Mathematics or Latin on the higher standard, or unless both Mathematics and Latin have been passed (either higher or lower standard). Candidates who have not obtained a Leaving Certificate may be admitted on passing a Preliminary Examn. in four subjects under similar restrictions and conditions.

*Exemption (pro tanto)* is granted in consideration of having passed approved equivalent examns. Candidates from abroad, whose native language is other than English, must pass a Special examn. in English (held in March, Sept., and Oct.; in set works and an oral examn.). Candidates from the British Empire overseas, whose native language is English and who have passed examns which would admit them to Univs. or Tech Colleges affiliated to Univs in their own country, will be exempted. Indian students must have obtained a first-class in the Intern. examn in Arts or Science of an Indian Univ., and must at some stage of their course have passed in Maths. or Science and English. Similarly the Baccalauréat ès Lettres or ès Sciences will exempt from the Prelim. examn., Certificates of Maturity or Grades similar to the French Baccalauréat which would entitle the holder to enter upon a regular course of study in the Univs. of his own country will similarly exempt other students from the continent of Europe; and students of the U.S.A holding certificates which would admit to a regular



graduating course in any of the Univs. or Colleges approved by the Assocn. of American Univs. (v. Appendix XXIV.) will be exempt.

*N.B.* A Certificate submitted as proof of title to admission to Univs. abroad should be accompanied by an authenticated declaration by a Government Official or Official of an Agency-General, Embassy, Legation, or Consulate of the country to which the applicant belongs, testifying that it has the alleged value. If in a foreign language, certificates should be accompanied by certified English translations.

Argentine Certificates giving admission to the Univ. of Buenos Ayres, the B.A. degree of St. John's, Shanghai, the first-class certificates of the Anglo-Chinese College, Amoy; and, if including Arabic, English, and Maths., the Egyptian Secondary Education Certificate, have been recognized as exempting from the Prelim. examn.

The holder of a Degree obtained otherwise than *honoris causa tantum* in any British or foreign Univ. is exempt from all Prelim. examn.

Applications for exemption on the ground of having passed any of the above-mentioned examns., or on other grounds, should be addressed to the Secretary of the Entrance Board, 81 North Street, St. Andrews.

DEGREES and courses leading thereto (v also p. 15). The *M.A.* (ordinary) course (there is no B.A.) extends over 3 yrs and includes (for ordinary degree) subjects from 3 of the 4 departments of the Faculty, namely Lang and Lit., Ment. Philos., Science, Hist. and Law. (There are further restrictions at St. Andrews and Edinburgh) A candidate for the degree must not only have regularly attended, but also have duly performed the work of the classes in the qualifying courses. The first 2 yrs may be taken in any of the Scottish Univs. The Senatus may accept attendance given and examns passed at other Univs. specially recognized for the purpose, if qualifying courses for at least 2 yrs. (St. And., 1 yr) are attended and the Degree examns. are passed in the Univ. granting the degree. For the purpose of reckoning duration of study an academic yr is constituted by attendance on at least 1 course (Glas and St. And., 2 courses) of study in each of the 3 terms. The degree is never conferred *honoris causa*. For M.A. (Hons) 4 yrs.' study is generally required.

The *B Phil.* and *B Litt* are conferred only by St. And. A candidate for either of these degrees must take the M.A. either before or along with it. The standard of the Final examn is that of the M.A. Honours.

The *B Com.* conferred by St. And., Aberd., and Edin may be taken, under conditions as to place of study similar to those for the M.A., after courses covering at least 9 terms.

The *Ed.B.* involves a 2 yrs' course subsequent to the first 3 yrs of study for a previous degree, in addition to Professional training or experience as a teacher.

The practical part of the training of students preparing for the *Teaching Profession* is provided by the several Provincial Committees, which likewise recognize attendance at Univ. classes as qualifying for their certificates.

The *B.Sc. in Pure Science*. The course for the ordinary degree covers 3 yrs (Edinburgh 4 yrs) and includes from 6 to 9 courses, of

which 4 or 5 (St. And., 2) must be taken in the Univ. which is to grant the degree. The other courses may be taken in other Univs. or Institns. approved, or under teachers recognized for this purpose, by the Univ. Court. The degree with Honours requires 4 yrs, and is of a standard not less high than that required for M A. (Hons ).

*The B.Sc. in Applied Science* can be obtained as follows Engineering (St. And, ord and hons, 3 yrs ; Edin, ordinary and honours, both 3 yrs. ; Glas, 4 yrs, the branches in which honours are obtainable being Civ., Mech, Elec, Mining, and Chemical E, and Naval Archit. ; Aberd, ordinance in preparation). Mining Engineering (Edin., ordinary, 4 yrs.). Applied Chemistry (Glas., honours, 4 yrs ). Technical Chemistry (Edin, ordinary, 4 yrs ). Architecture (Glas, honours, 4 yrs.). Agric. (Aberd., Edin, and Glas, ordinary, 3 yrs., honours, 4 yrs ). Forestry (Aberd, ordinary, 3 yrs. ; Edin., ordinary, 3 yrs. ; honours, 4 yrs.). Pharmacy (Glas, ordinary, 3 yrs ). Public Health (Glas, 18 months after graduation in Med ). Vet. Sc. (Edin., 4 yrs ).

*Higher Degrees in Arts and Science.* The D.Sc. in Pure Science, in Engin. (Edin, Glas, St And ), Pub Health (Glas ), Mining (Edin ), Agric. (Edin ), Forestry (Edin ), and Vet Sc (Edin ), and the D Litt are open to graduates of 5 yrs ' standing. A thesis is required and, except in the case of a graduate of a Scot Univ with an Honours degree (St And, an Honours graduate of the Univ. granting the degree), research under supervision extending over 2 yrs. in the Univ. which is to grant the degree. These degrees are never granted *honoris causa*.

*Divinity.* The B D. examn of any of the Univs. is open to a graduate in Arts of a Scottish or other approved Univ. or the holder of any Univ. Degree or Diploma recognized as an equivalent by the Univ. Court who has completed his Theol course (3 yrs ), of which not less than 2 yrs. has been in the Univ. in which he proposes to take the B.D. All the examns. must be passed at the Univ. granting the Degree. The D.D. is honorary The Gifford Lectures in Natural Theology are open to the general public.

*Law.* The B.L. course (3 yrs.) is open to students who have passed the Prelim or its equivalent. Candidates for the degree must produce evidence of a sufficient knowledge of Latin before entering the Class of Civil Law. The LL.B. (3 yrs ) is open to graduates in Arts of a Univ. of the U.K. or any other specially recognized.

Of the B L course 1 yr and of the LL B. 2 yrs. may be spent in any specially recognized Univ. or School of Law.

St And. does not at present provide full courses for or grant these degrees.

The LL D. is honorary.

*Medicine.* Three of the requisite 5 yrs of medical study for the M.B. and Ch B may be spent in any Univ. of the U K. or other Institn. specially recognized for the purpose or under a teacher recognized by the Univ. A candidate who has at any such Univ. completed a course and passed an examn. in Chem., Physics, or Biology qualifying for a degree in Science, Arts, or Med. may be exempted by the Senatus from the corresponding part of the M.B, Ch.B. examns. Aberd., Edin., and St. And. extend this concession to courses and examns. in Anatomy and

Physiology qualifying for a degree in Science (St. And.—or Arts or Med ; Edin.—or Med ).

A graduate in Medicine of at least 24 yrs. of age who has, subsequent to graduation, been engaged for at least 1 yr. in attending the Med. (or Surg ) wards of a hospl., or in scientific work bearing directly on his profession, or in the Naval, Milit , Colonial (Aberd , Edin , Glas ), or, for the M.D. (St. And —M.D. or Ch.M.), Pub. Health Med Services, or 2 yrs. in practice not restricted to Surg (or Med ), and passed the prescribed examn. and submitted a satisfactory thesis, may be admitted M.D. or Ch.M. as the case may be.

*Ph.D.* See p. 18.

**FEES** The Matriculation, 2 gs. *per annum* ; inclusive Tuition fees *per annum* in Arts are 15 gs , in Science, 25 to 35 gs. ; examn. fees for M.A., 7½ gs. ; B.Sc., 9 gs ; Divinity, 7½ gs ; Law, 9 gs. ; M.B., Ch B., 33 gs. , graduation, £1. Further information is given in the several Univ. sections.

**RESEARCH OR SPECIAL STUDY** may be prosecuted in a Univ. under supervision by persons suitably qualified, whether graduates or not, admitted by the Senatus Access to and the use of the Univ. laboratories, etc , may be obtained on such conditions as to payment and otherwise as the Univ. Court may determine. The title of Research Fellow may be conferred with or without a stipend on specially distinguished research students

**APPOINTMENTS COMMITTEES** have been constituted in all the Univs to help students to find employment.

**SCHOLARSHIPS.** Provision for affording Univ instruction and maintenance to students of small means is probably nowhere more ample than in Scotland Besides the Carnegie Trust benefactions (v. *infra*) and the numerous bursaries, etc , awarded by the Universities and the Trustees of unattached educational endowments, all Scottish Education Authorities make provision in their Bursary Schemes for assisting duly qualified persons resident in their areas, and needing such assistance, to attend a University, Training College, Central Institution, etc. The sum so spent by Education Authorities in the financial year 1926-27 was £134,000

*Scholarships, etc., for Graduates* The following are open to graduates of all the Scot. Univs. : (1) Carnegie Scholarships (£150) and Fellowships (£250) and grants in aid of Research Application forms supplied by the Carnegie Trust, 22 Hanover St., Edinburgh. (2) Ferguson—six of £80 each for 2 yrs for graduates in Arts. Ferguson Bequest Fund, 94 Bath St., Glasgow. (3) M'Cunn—four of £200 for 1 yr., for medical research. M'Cunn's Trustees, 160 West George St., Glasgow. (4) Shaw Philosophical—£200 for 5 yrs. for graduates in Arts (in the Patronage of Edinburgh Univ.). (5) Black—in Greek, £196 for 1 yr. for graduates in Arts distinguished in the B.D. examns. (6) Hume Brown—in Scottish History, £65 for 1 yr. for graduates in Arts ; managed by the Univ. of Edin. (7) Maclean (Semitic Languages), £175 for 1 yr. for graduates in Arts preparing to enter the Ministry of the Church of Scotland ; managed by the Univ. of Glasgow. (8)

Crombie (Biblical Criticism), £50 for 1 or 2 yrs. for graduates in Arts with First Class Hons. in Classics; managed by St. Andrews. (9) Shaw Macfie Lang (Science), Income of £3000 for Hons. Graduates in Arts or Science; managed by Edinburgh.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. Offices at Merchants' Hall, 22 Hanover Street, Edinburgh. Secretary, Jas. Robb, LL.B.; Treasurer, Jas. Davidson.

The annual income of the Trust is about £125,000, one half of which is devoted to (A) the improvement and expansion of the Universities of Scotland in the faculties of Science, Medicine, History, and Mod. Langs., and extending opportunities for scientific study and research, and Technical or Commercial Univ. education; the other half to (B) assisting Scottish students in the payment of Univ. class fees. Any surplus not required for (B) in any year is to be devoted to (A). Institutions in Scotland recognized by the Executive Committee of the Trustees as preparing students for graduation or as providing technical or commercial education of University level are entitled to participate as regards (A) and their students as regards (B). Any surplus not required for (A) or (B) may be devoted to Univ. Extension work.

The Regulations for Assistance in the payment of Class fees provide, *inter alia*, that applicants should hold the Leaving Certif. of the Scottish Educn. Dept. bearing evidence of such preliminary education as is required by the Univs. for their respective graduating curricula. Where for satisfactory reasons such Leaving Certif. has not been obtained, the Exec. Committee may accept instead what they deem equivalent evidence of attainments, provided that no applicant will be eligible who has to pass any further prelim. examn. before completing his graduating curriculum. Class Fees paid for 1926-27: St. Andrews—£4446 for 346 beneficiaries; Glasgow—£28,221 for 2348; Aberdeen—£9110 for 793; Edinburgh—£16,886 for 1404.

The annual report of the Executive Committee contains reports of experts on the work of beneficiaries under the Research Scheme and lists of papers published by them. Research Fellowships, Scholarships, and Grants awarded for 1927-28: St. Andrews—32, value £6192; Glasgow—26, value £3874; Aberdeen—9, value £1584; Edinburgh—18, value £2586. Total—85, £14,236.

Under a Fifth Quinquennial Scheme of Distribution for the period from Oct. 1, 1925, to Sept. 30, 1930, there has been allocated a sum of £231,225, distributed thus: St. Andrews centre—£38,000; Glasgow—£73,600; Aberdeen—£46,250; Edinburgh—£73,375.

THE SCOTTISH STUDENTS' INTER-UNIVERSITIES CONFERENCE. At this Conference, which is held annually, and meets in rotation at St. Andrews, Aberdeen, Glasgow, and Edinburgh, the students of the 4 Univs. discuss matters of general interest to them all. The Students' Representative Council of each Univ. sends 4 delegates, one of whom must be a woman. The convener of the International Academic Committee (v. p. 7) also attends, and each Univ.'s Union and Students' magazine are represented. The President and Secretary of the Con-

ference are the President and Secretary of the Students' Representative Council of the Univ. at which the Conference is held. A record of the work of each Conference is printed and distributed to each of the Univs. concerned. The 33rd Conference was held at Glasgow in 1927. The Inter-Universities International Academic Committee of the S.R.C.'s appoints "Academic Consuls" in the principal university centres overseas. The committee is glad to help students from overseas visiting Scotland. Information as to lodgings, etc., can be obtained from the International Academic Secretary, S.R.C. Office, University of Edinburgh.

# UNIVERSITY OF ABERDEEN

CHANCELLOR—The Right Hon. BARON MESTON OF AGRA AND DUNNOTTAR, K C S I, V D, LL D.

VICE-CHANCELLOR AND PRINCIPAL—Very Rev. Sir GEORGE ADAM SMITH, M.A., D.D., LL D., Litt D., F.B.A.

RECTOR—Right Honourable THE EARL OF BIRKENHEAD, P C, M A, D C.L. (elected 1927)

DEANS OF FACULTIES. See under "General Information"—Faculties.

SECRETARY TO THE UNIVERSITY—H J BUTCHART, D S O, B L.

CLERK AND REGISTRAR OF GENERAL COUNCIL, AND LIBRARIAN—W D. SIMPSON, M A, D Litt

## UNIVERSITY COURT

PRESIDENT—THE RECTOR  
THE PRINCIPAL, *ex officio*  
THE LORD PROVOST OF ABERDEEN,  
*ex officio*.

J E CROMBIE, M A, LL D  
Sir THOMAS JAFFREY, LL D  
H. J. GRAY, M A, B.L.  
GEORGE DUNCAN, M.A.  
GORDON JOHN MURRAY, M A, D.D.  
GEORGE SMITH, M A, LL.D.

J SCOTT RIDDELL, M V.O, C B.E.,  
LL.D., D.L, M A, M.B, C.M.  
Prof ASHLEY W. MACKINTOSH,  
M A, M D.  
Prof. H. M. MACDONALD, O.B.E.,  
M.A., F.R.S.  
Prof JAS GILROY, M A, D D.  
Prof Sir JOHN MARNOCH, C V O.,  
M A, M.B., C M.

## PROFESSORS, LECTURERS, ETC.

*Accounting & Business Methods*  
Reid, J, M.A., C.A. Lectr.  
Grant, John, M.A., C A.

Asst. (Agric. Book-keeping)

*Agriculture*, v. also Eng, Nat.

Hist., Law, Vet. Hyg.

Hendrick, J, B Sc. Lond.

Strathcona-Fordyce Prof.

Profeit, W. J, M.A, B Sc. (Agr.)  
Lectr.

Donald, G, B Sc. (Agr.) Asst.

Findlay, W. M. (Seed Testing)  
Asst.

*Agric. Botany*

Clark, R. M., B Sc. Lectr.

*Agric. Chemistry* [Asst.

Hill, Alfred, B.Sc., B Sc (Agr.)

Moore, W., B.Sc, B Sc (Agr.)  
Asst.

*Anatomy*, v also Embryol.

Low, Alexr., M.A, M D.

Reg Prof.

Lockhart, R D, Ch M Lectr.

Otty, John H, M A., M B, Ch B.

Asst.

*Art*

[Lectr.

Rollo, R Leshe, A.R.I.B.A. (Prin-  
ciples and Hist. of Archit.)

Townend, H, M A. (Painting)

Lectr.

Prof. Laird

Lectr. (Theory of Art).

Prof Harrower Lectr. (Sculpture).

*Astronomy and Meteorology*

Roberts, Owen F. T., M A. Camb.

Lectr.

*Banking*

Cowie, R. H. Lectr.

*Bio-Chemistry*

Beard, E., B.Sc. Lectr.

*Biology*, v. Nat. Hist.

*Botany*

Craib, W. G., M.A. Reg. Prof.

Redington, G., M.Sc. Leeds

Lectr. in Veg. Physiol.

Chater, E. H., B.Sc. Asst.

Downie, Dorothy G., B.Sc., B.Sc. (For) Asst.

*Celtic and Comp. Philology*

MacDonald, John, M.A. Reader.

*Chemistry*, v. also Agric.

Findlay, Alexr., M.A., D.Sc., Ph.D

Leip. Prof

Gray, F. W., M.A., D.Sc. Lectr.

Reade, T. H., M.Sc. Birm., B.A.

Camb. Lectr

Humphries, J. E., M.Sc. Wales,

B.A. Lond. and Camb., Ph.D.

Lond., D.Sc. Lectr.

Campbell, Alan N., M.Sc., Ph.D.

Lond. Asst.

Strathdee, R. B., M.A., B.Sc.,

Ph.D. Asst

*Chemistry, Clinical*

Lyall, Alex., M.A., M.D. Lectr.

*Classics*

Harrower, J., LL.D. Glas., M.A.

Reg. Prof. (Greek).

Duff, A. M., M.A., B.Litt. Ox

Asst.

Wood, Margaret, M.A.

Asst. (Greek).

Davidson, J. J., M.A. Asst

Souter, A., M.A., D.Litt., D.D.

Reg. Prof. (Humanity).

Campbell, Donald J., M.A., B.A.

Asst (Latin)

Box, H., B.A. Ox. Asst. (Latin).

Little, J. R., M.A. Asst. (Latin).

*Divinity*, v. Theol.

*Economics*, v. Pol. Econ.

*Education*

Walker, Norman T., M.A. Edin.,

Ed.B. Lectr.

Oakley, C. A., B.Sc. Glas. Asst.

*Embryology*

Purser, G. L., M.A. Edin. Lectr.

Blackadder, W., D.Sc. Edin.

*Engineering* [Jackson Prof.

Stewart, F. R., B.Sc. (Eng.) Glas.

Asst (Agric. E.).

Cruickshank, A., M.C.I. " "

Chisholm, J. A. Asst. " "

Orkney, J. C., B.Sc. (Eng.)

Lectr (Elec. E.).

Biggam, J., B.Sc. (Eng.)

Lectr. (Mech. E.).

Grassie, J. C., B.Sc. (Eng.)

Asst. (Forest E.).

*English*, v. also Public Speaking

Jack, A. A., M.A. Glas., LL.M.

Camb., LL.D. Glas

Chalmers Prof. of E. Lit.

Taylor, W. D., M.A. Glas., B.A.

Ox, M.A. Lectr. (E. Lit.).

Abbott, C. C., M.A. Lond., B.A.,

Ph.D. Camb

Lectr. (E. Lang.).

Mursell, W. A., M.A., D.D.

(Part-time Asst.).

Macpherson, Ian, M.A.

(Part-time Asst.).

*Fisheries, Scientific Study of*

Bowman, A., D.Sc. Lectr.

*Forestry*, v. also Engin. [Prof.

Borthwick, A. W., O.B.E., D.Sc.

Fraser, G. K., M.A., B.Sc., B.Sc.

(For.) Lectr. in Soils.

Watt, A. S., B.A. Camb., M.A.,

B.Sc. (Agr.), Ph.D. Camb.

Lectr.

Laing, E. V., M.A., B.Sc., B.Sc.

(For.) Asst.

*French*

Shears, F. S., B.A., L. ès L.,

D. de l'Univ. Paris Prof.

Casati, E., L. ès L. Lyons Lectr.

Linscott, R. A., B.A. Asst.

Métayer, Margaret Asst.

Lentz, E. E. Part-time Asst.

*Geography*

McFarlane, J., M.A. Edin., M.Com.

Manc., B.A. Camb. Reader.

*Geology* [Kilgour Prof.]

Gibb, A. W., M.A., D.Sc.  
Mackinnon, W. G., B.Sc. Asst.

*German* [Reader]

Bruford, W. H., M.A. Camb.  
Breul, Ernest D., M.A. Asst  
Henel, H., Ph.D. Frankfort Asst

*Hebrew and Semitic Langs.*

Gilroy, J., D.D. St. And., M.A.  
Reg. Prof

*History*, v also Law, Theol

Terry, C. S., M.A., Litt D. Camb,  
Hon. Mus.D. Edin., LL.D.  
Glas. Burnett-Fletcher Prof.  
Henderson, J. M., M.A. Edin  
Lectr (British Hist.)  
Matheson, K. C. C., M.A. Asst

*Law*, v. *infra**Logic*

Ferguson, A. S., M.A. St. And  
and Ox. Reg. Prof.  
Foster, Michael, M.A., Ph.D.  
Asst

*Mathematics*

Macdonald, H. M., O.B.E., M.A.,  
F.R.S. Prof.  
Goodwillie, J., M.A. Camb and  
Edin., B.Sc. Edin  
Lectr & Asst.

Burnett, D., M.A., B.Sc. Asst

*Medicine*, v. *infra**Meteorology*, v Astron.*Music*, v Art*Natural History* [Reg. Prof]

Thomson, J. A., M.A., LL.D. Edin.  
Lectrs.

..... (Agr. Zool. and  
Parasitology)

Neill, R. M., M.A. Glas (Zool).  
Dean, Laura M. I., B.Sc.  
Asst. (Zool).  
Cumming, Catherine M., B.Sc.  
Asst (Agr. Zool).

*Philology*, v. Celtic*Philosophy, Moral*

Laird, John, M.A. Edin., B.A.  
Camb. Reg. Prof.

*Philosophy, Nat.*

Thomson, G. P., M.A. Camb Prof.  
Geddes, A. E. M., O.B.E., M.A.,  
D.Sc. Lectr.  
Griffith, H. D., B.A. Camb. Lectr.  
White, Paul, B.A. Asst.  
Emslie, Alfred G., M.A. Asst

*Physiology* [Reg. Prof.]

Macleod, J. J. R., D.Sc., LL.D.,  
M.B., Ch.B., F.R.S.  
Reid, C., M.A., M.D., D.Sc., D.P.H.  
Camb. (Expl. P.) Lectr.  
Fraser, Allen H. H., B.Sc., M.B.,  
Ch.B. Asst  
Startup, C. W., B.Sc. Asst.  
Orr, J. B., D.S.O., M.A., D.Sc.,  
M.D. Glas.

Research Lectr (P. of Nutrition).

*Political Economy*

Gray, A., M.A. Edin. Jaffrey Prof  
Macdonald, Annie, M.A. (Lectr. in  
Pub Finance) Asst  
Hamilton, H., M.A., D.Litt Glas  
(Econ. Hist.) Lectr.

*Psychology, Comparative*

McIntyre, J. L., M.A. Edin  
and Ox., D.Sc. Edin  
Anderson Lectr

*Public Speaking*

Mursell, W. A., M.A., D.D. (Asst  
in English) Lectr

*Spanish*

Davidson, C., M.A. Lectr.

*Statistical Methods*

Tocher, J. F., D.Sc. Croll Lectr.

*Theology*

Baird, A. C., M.A., D.D., B.Sc.  
Glas (Bibl. Crit.) Reg. Prof.  
Henderson, G. D., M.A., B.D.  
Glas. (Church Hist.) Reg. Prof.  
Thomson, G. T., M.A. (Systematic  
T.) Prof.  
Prof. Étienne Gibson, LL.D.  
Gifford Lectr.

*Veterinary Hygiene and Agr.**Bacteriology*

..... (Agr.) Lectr.  
Grant, J. C., M.R.C.V.S. Asst.

*Zoology*, v. For, Nat. Hist.



**Law**

Stuart, A. M., K C., LL.B. Edin.,  
M.A. Prof.  
Edwards, J. H., LL.B.  
Part-time Asst  
Hay, Andrew L., LL.B.  
Tutor in Law.

*Conveyancing*

Morrison, A. C., O B E., M.A. St.  
And, LL.B. Glas. Prof.

*Constit. L. and Hist.*

Williamson, R. M., LL B Edin.,  
M.A. Lectr

*Internat. L., Public and Private*  
Duncan, G., M.A. Lectr

*Procedure and Evidence*  
Blacklaw, A., M.A. Clark Lectr

*Roman Law*  
Masson, R. P., LL B (Asst in  
*Agric L.*) Lectr

*Mercantile Law*  
Esslemont, W. D., M A, B L  
Lectr

*Agricultural Law*  
Wilson, N. J., M A, LL.B. Asst.

**Medicine** (for subjects of the first  
2 yrs.—Anat., etc., v. *supra*)

*Bacteriology* [Prof.  
Cruickshank, J., M.D., D Sc. Glas.  
Kerrin, J. C., M.B. Asst

*Forensic Med.*  
..... Prof

Richards, R., M.A., M.D. Lectr  
Williamson, G., M A., M.B (Med  
Ethics) Lectr

*Director of Physical Training*  
Brocks, Capt A W., M C., M B.E.  
Campbell, Mrs. E. M. Asst.

*Materia Medica*  
Marshall, C. R., M.A Camb., M.D.  
Manc., LL.D. Reg. Prof.  
Hendry, A W., M D Asst  
Macdonald, T. J. C., M.D. Asst.

*Medicine* [Reg. Prof.  
Mackintosh, A. W., M.A., M.D.

Ogston, A., M.A., M.B., C.M.  
(Anæs.) Lectr.

Mackenzie, J. R., M.D. (Anæs.)  
Lectr.

Fraser, T., C.B.E., D S.O., M.A.,  
M B, Ch B. (Chn) Lectr.

Croll, W. F., M.A., M.D. (Chn.)  
Lectr.

Anderson, A. G., M A., M.D.  
Part-time Asst.

*Midwifery* [Reg. Prof.  
McKerron, R. G., M.A., M.D.  
Semple, R., O B.E., M.D.  
Part-time Asst.

*Ophthalmology*  
Souter, W. C., M.D., D.O. Lectr.  
Galloway, A. R., O.B.E., M.A.,  
M.B, C.M. Lectr.

*Pathology* [Wilson Prof.  
Shennan, T., M.D. Edin.

Gray, J., M B. Edin Asst.  
Thomson, James G., M.B, Ch B.  
Asst

..... Georgina McRobert  
Lectr (Cancer Re-  
search).

*Public Health* [Lectr.  
Kinloch, J. P., M.D. Glas, D P.H.

Berry, D. W., M D., D.P.H. Lectr.  
Merewether, Edward R A, M D

Lectr  
Peterkin, H., M A., M B, Ch.B.

(Diseases of the Ear, Nose,  
and Throat) Lectr.

Brown, J., M B, Ch B., D.P.H.  
(Vaccination) Lectr.

Brown, R. D., M.D., F.R.C.P.E.  
(Mental Diseases) Lectr.

Christie, J. F., M A, M B., C.M.,  
F R C.P. (Diseases of the Skin  
and Venereal) Lectr.

*Radiology and Electro-Thera-  
peutics*

Levack, J. R., M.B., C.M. Lectr.

*Surgery*  
Marnoch, Sir J., C.V.O., M.A.,  
M.B, C.M. Reg. Prof.

Anderson, William, M.B, Ch.B.,  
F.R.C.S. Asst.

Dean, Gordon M., B.A., M.B., Ch B.	Asst. William Smith, F. K., M.A., M.B., Ch B. (Clin.)	<i>Tropical Medicine</i> Williamson, G. A., D.T.M. Liv., M.A., M.D.	Lectr.
Colt, G. H., M.A., M.B., F.R.C.S. (Clin.)	Lectr.	<i>Tuberculosis</i>	[Lectr.
Mitchell, A., M.A., Ch.B. (Diseases of Children)	Lectr.	Banks, G. S., M.B., Ch B., D.P.H. Brown, W., O.B.E., M.B., Ch B. (Diseases of Children)	Lectr.

## ASSOCIATED COLLEGES

NORTH OF SCOTLAND COLLEGE OF AGRICULTURE.

ROBERT GORDON TECHNICAL COLLEGES.

## GENERAL INFORMATION

The "University and King's College of Aberdeen," founded under a Papal Bull in 1494, and the "Marischal College," founded in 1593 by George Keith, Earl Marischal, were reconstituted in 1860 as "The University of Aberdeen." Certain of the original buildings remain, notably the Chapel (A.D. 1500).

The LIBRARY, founded in 1500, has 250,000 vols. and 200 Incunabula, some unique. It is especially rich in Celtic literature, and books bearing on the history, topography, and antiquities of the Scottish Highlands, and Classical Archaeology. Annual budget about £3500. MUSEUMS: Anthropological (ilust. cat. 1s), Surgical (2500 specimens and 600 instruments), etc. Besides the usual LABORATORIES there is the Rowett Institute of Research in *Animal Nutrition* near Bankhead, with departments of Physiology, Bio-Chemistry, Bacteriology and Pathology, and attached Animal Husbandry section for practical experiments in feeding, etc. It is under the management of a joint committee of the Univ. and the N. of Scotland College of Agric. Hospitals available for clinics: Infirmary, 230 beds; Children's, 85; Fever, 100; Mental Hospital, 700.

FACULTIES. Arts, Science, Divinity, Law, Medicine. Deans: Profs. Souter, Findlay, Baird, Stuart, Low.

Departments: Commerce, Education.

DEGREES, ETC. For Diploma course in Forestry (2 yrs.) there is a Preliminary examn. in English and Maths. The papers in the Final examn. in Forestry are the same as those set for the B.Sc. For Diplomas are also conferred in Public Health (D.P.H.) and in Fine Art (History and Theory). A Certificate in Fine Art is also given.

The following Univs. have been recognized by the Univ. Court *pro tanto* as institutions in which 3 of the requisite 5 yrs. of medical study may be taken, provided that the prescribed conditions with reference to such study are fulfilled: Bom., Calc., Mad., Adel., Melb., Syd., N.Z., S. Africa, Dal., Queen's (Kingston), Tor., McGill, Chic., Corn., J.H.U., Harv., Stanf., Mich., Penn., Yale. Individual teachers in other Univs. may be recognized upon satisfying the Univ. Court with respect to their courses. The following have been recognized in respect of courses and examns. in Bot., Zool., Biol., Physics, and Chem. qualifying for a degree in Science or in Arts or in Med.: Bom., Calc., Mad., All., Panj., Rangoon, Melb., Syd., Adel., Queen's (Kingston), McGill, Tor., Manit., S. Africa. The courses and examn. in Anat. and Physiol. for the Science degree of the Univ. of Cape Town have been recognized.

FEES (v. Carnegie Trust). Inclusive fees for tuition: B.D., 40 gs.; LL.B., 40 gs. (28 gs. for a M.A. of the Univ.); B.L., 30 gs.; M.A. and B.Sc. taken

together, 112½ gs. ; M.A. and B.Com., 75 gs. ; B.Sc. and B.Com., 112½ gs. ; M.B., Ch.B., 126 gs. ; M.A., M.B., Ch.B., 156 gs. ; B.Sc., M.B., and Ch.B., 168 gs. ; M.A., B.Sc., M.B., and Ch.B., 202 gs. ; M.A. (Hons.), 60 gs. ; B.Com. , 45 gs. ; B.Sc. (Pure Science, Agriculture, Forestry, and Engineering), 90 gs. ; B.Sc. (Hons.), 100 gs. ; M.A. (Hons.) and B.Sc., 127½ gs. The total cost of the whole medical curriculum, including hospital fees, classes, matricn., and degree fees, is usually about £236. The degree fees for the Doctorates are from 10 to 20 gs. The class and examn. fees for the D.P.H. amount to 36 gs. ; for the Diploma in History and Theory of Fine Art, and for the Certificate in Fine Art, to 8 gs. and 15 gs. respectively.

SCHOLARSHIPS, ETC., for graduates, about 25 ; aggregate annual value about £1600. *Travelling Scholarships*: Anderson, for medical graduates, about £200 p.a. ; Kilgour, £250 for graduates in Natural Science or Natural History ; Robbie, £100 p.a. in Maths., Nat. Philos., and Chem

RESIDENCE. No Univ Hostel. List of lodgings kept by Students' Repve. Council.

PHYSICAL WELFARE OF STUDENTS. There is a Director of Physical Training (who is an officer of the Army), with a woman assistant for women students.

PUBLICATIONS. *Calendar* (Sept.), 4s. 6d ; *Univ. Review*, 7s. 6d. p.a. (3 issues) ; *Students' Handbook* (Nov.), 1s. ; *Alma Mater* (organ of S.R.C.) ; *Univ. Libr. Bulletin*, 2s. 6d p.a. (2 issues).

## THE YEAR 1927-28

BENEFACTIONS Major-General Popc, C.B., £450:19:6 (legacy). The late Prof. Henry Stephen, £1446. 17s. (Stephen Bursary). Thomas Wemyss Fulton, £235, and Mrs. Fulton, £235, for a prize in Neurology in memory of their only son, the late E. G. A W Fulton, M.B., Ch.B. The relatives of the late B. R. Gordon Russell, M.B., Ch.B., £200 for a medal in Pathology in his memory. The late Miss Agnes M'Lennan, £2000. Mrs. Patrick Ness, £100 for upkeep of African trophies. Carnegie Trust : £1000 for purchase of books ; £13,550 towards cost of new Examination Hall at King's College, Old Aberdeen ; £113:1:6 towards cost of new Playing Fields.

HONORARY DEGREES. D.D.—J. E. Adams, J. T. Cox, W. A. L. Elmslie, W. D. Niven LL.D —J. G. C. Anderson, Sir James Donald, Sir William B. Hardy, W. Murison, The Right Hon. Viscount Cecil of Chelwood, A. Lewis, J. A. MacWilliam, R. S. Wallace.

NEW POST. Foundation of Lectureship in Mercantile Law.

NEW BUILDINGS. New Examination Hall and class-rooms in course of erection.

BUILDINGS. Progress is being made with the erection of the new Examination Hall and additional Class-rooms at King's College. In connexion with the Joint Hospital Scheme the site has been acquired at Foresterhill, Aberdeen, for the erection of buildings to accommodate certain Medical Departments. The laying out of three new pitches has been completed for the Women's Hockey Club, Men's Hockey Club, and Association Football Club.

STUDENTS. Full-time: total, 1393.

DEGREES. D.Sc., 2 ; Ph.D., 3 ; M.D., 16 ; M.A., 183 ; Ed.B., 1 ; B.Sc., 21 ; B.Sc. (Agr.), 9 ; B.Sc. (Eng.), 6 ; B.Com., 6 ; LL.B., 4 ; B.L., 3 ; B.D., 3 ; M.B. and Ch.B., 53 ; D.P.H., 12 ; Dip. in Agr., 3.

# UNIVERSITY OF EDINBURGH

CHANCELLOR—Rt. Hon. THE EARL OF BALFOUR, K.G., O.M., D.C.L.

VICE-CHANCELLOR AND PRINCIPAL—Sir J. ALFRED EWING, K C B.,  
M.A., D.Sc., LL.D., F.R.S

RECTOR—Rt. Hon Sir JOHN GILMOUR, Bart., D.S.O., LL.D. M.P.  
(elected 1926).

DEANS OF FACULTIES. See under "General Information"—Faculties

SECRETARY TO THE UNIVERSITY—W. A. FLEMING, M.A., LL.B.,  
Advocate.

## UNIVERSITY COURT

PRESIDENT—THE RECTOR, <i>ex officio</i>	J B CLARK, M A
THE PRINCIPAL, <i>ex officio</i> .	ALEXANDER MILES, M D , LL D.
The Rt. Hon THE LORD PROVOST OF EDINBURGH, <i>ex officio</i>	Prof Sir T. HUDSON BEARE, B A , B Sc , M.I.C.E.
The Hon LORD BLACKBURN	Prof NORMAN KEMP SMITH, M A., LL D , F.B.A.
The Hon LORD CONSTABLE	
Baihe T B WHITSON	Prof Sir ROBERT W. PHILIP, M D , LL D.
J. ROBERTON CHRISTIE, O B E , K C.	Prof E T WHITTAKER, M A., Sc D , LL D , F R S.
SIR NORMAN WALKER, M.D., LL.D.	

## PROFESSORS, LECTURERS, ETC.

<i>Accounting and Business Method</i>	Jamieson, E. B., M D	Lectr.
Annan, W , C A	Prof. Wood, W. Q., M.B	Lectr.
Keddie, C , C A.	Asst Jardine, F. E., M.B. (A. and Ap- plied A )	Lectr.
<i>Actuarial Science</i>	<i>Anatomy, Comparative</i>	
Gwilt, R. L , F F A , F I A	Bradley, O C , M D., D Sc	Lectr.
Mein, C B , B A , F F.A.	Grahame, Tom, M R.C V S	Asst.
<i>Agriculture and Rural Economy,</i> v also Bot and Forestry	<i>Anatomy, Morbid</i>	
Shearer, E , M A , B Sc.	Davidson, James, M B.	Lectr.
More, J. A., B Sc	<i>Anthropology and Prehistoric</i> <i>Archæol.</i>	
Gordon, J Evans, B.Sc	.....	Munro Lectr.
<i>Agric. and Forest Entomol.</i>	<i>Arabic</i>	
MacDougall, R. S., M.A., D.Sc.	Bell, Richard, M.A , D D	Lectr.
	Reader.	
<i>Anatomy</i>	<i>Prehistoric Archæology</i>	
Robinson, A , M.D.	Childe, V. G , M.A. Syd., B.Litt.	Prof.
	Ox.	

*Art (Fine Art)*  
Brown, G. Baldwin, M.A. Ox.,  
LL.D. Prof.  
Nicolson, Catherine A., M.A. Asst.

*Astronomy*  
Sampson, R. A., M.A. Camb., D.Sc.,  
F.R.S. Reg Prof.

*Banking*  
M'Neil, A., S.S.C. Bruce Lectr

*Biology*, v. Nat. Hist.

*Botany*, v. also Forestry  
Smith, Wm Wright, M.A., F.R.S.  
Reg. Prof.  
Wilson, M., D.Sc. (Mycol. and  
Bacteriol.) Reader.  
Smith, J. L. S., M.A., B.Sc.  
(Forest B.) Lectr.  
Matthews, J. R., M.A., B.Sc.  
Lectr.

Graham, R. J. D., D.Sc. (Plant  
Physiol.) Lectr

*Celtic Languages, etc.*  
Watson, W. J., M.A. Ox., LL.D.  
Prof.

*Chemistry*  
Kendall, James P., M.A., D.Sc.,  
F.R.S.  
Mackenzie, J. E., D.Sc., Ph.D.  
Reader

Kay, S. A., D.Sc. Lectr  
Rule, H. G., Ph.D., D.Sc. Lectr.  
Shoesmith, John B., D.Sc. Lectr.  
Butler, J. A. V., M.Sc. Lectr.  
Bolam, T., M.Sc. Lectr.  
Ludlam, E. B., M.A., D.Sc. Lectr.  
Miller, Miss C. C., M.Sc., Ph.D.  
Asst

Bolam, Mary R. (Mrs.), B.Sc.,  
Ph.D. Asst.  
M'Call, C. H. M., B.Sc. Asst.  
7 other Assts.

*Chemistry in relation to Medicine*  
Barger, G., M.A. Camb., D.Sc.,  
F.R.S. Prof.  
Stewart, C. P., M.Sc. Durh. Asst.  
Stedman, E., B.Sc., Ph.D. Lectr.  
Stedman, Ellen (Mrs.), M.Sc. Asst.  
Coyne, F. P., B.Sc. Asst.

Easson, L. H., B.Sc. Asst

*Chemistry, Technical*  
Bain, David, D.Sc. Lectr

*Classics, Greek*  
Pickard-Cambridge, A. W., M.A.  
Ox. Prof.  
Forbes, P. B. R., B.A. Camb.  
Lectr.

*Classics : Latin*  
Richmond, O. L., M.A. Camb.  
Prof.

Cameron, A., M.A. Lectr.  
Potter, K. R., M.A. Lectr.  
Smith, W. K., B.A. Asst.  
Nicolson, Miss C. A., M.A. Asst.  
Tennant, Miss M. K., M.A. Asst.

*Commerce, and Organization of  
Industry*  
Oliver, W., B.Sc., A.M.I.C.E. (v.  
also Acc., Banking) Prof.

*Commercial and Polit. Econ. and  
Merc. Law*, v. also Law  
Ogilvie, F. W., M.A. Ox. Prof.  
Birnie, A., M.A. (Econ. Hist.)  
Lectr.

Rankin, Mary T., M.A., D.Phil.  
Lectr.  
Joynt, Thomas A., M.A. Lectr.  
Fenelon, K. G., M.A., Ph.D.

Lectr.  
Aitken, A. C., D.Sc. (Statistics and  
Math. Econ.) Lectr.

*Cytology*, v. Nat. Hist.

*Divinity*  
Paterson, W. P., LL.D. Penn.,  
M.A., B.D., D.D. Prof.  
Wilson, T., B.D. Gunning Lectr.  
Curtis, W. A., M.A., B.D., D.Litt.,  
D.D.

Reg. Prof. of Biblical  
Criticism & Bib. Antiq.  
Mackinnon, J., M.A., Ph.D., D.D.  
Reg. Prof. of Eccl. Hist.  
Manson, Prof. W., B.D. Lectr.  
Simpson, Prof. J. Y., D.Sc. Lectr.  
Mackintosh, Prof. H. R., D.Phil.,  
D.D. Lectr.  
Watt, Prof. H., B.D. Lectr.

Welch, Prof. A. C., D.D., Th.D. Lectr.  
 Perry, P'pal. W., D.D. Lectr.  
 Hughes, P'pal. G. H., B.D., D.Litt. Lectr.  
 Lamont, D., D.D. Lectr.  
 Thornton, C. T., M.A., B.D. Lectr.  
 Morrison, J., D.D. Asst

*Gifford Lectr on Nat. Theol.*  
 Dewey, Prof J

*Economics, v. Comm.*

*Education*

Thomson, Godfrey H, D Sc.,  
 Ph D (Dir. of Studies of the  
 Provincial Training College) Prof  
 Milne, A, D Sc Lectr  
 Mowat, G, M A., B.Ed. Lectr.  
 Bickersteth, Marguerite E, Ph D  
 Asst.  
 Grant, Miss C. R, M A, B Ed  
 Asst  
 Thomson, Miss E M, M A., B Ed.  
 Borland, Miss J., M A.

*Engineering*

Beare, Sir Thos. Hudson, B A.,  
 B Sc. Adel. Reg. Prof  
 Todd, J. B., B.Sc., Ph D,  
 (Surv. & Hydraulics) Lectr.  
 Gordon, W., B Sc, Ph D.  
 (Strength of Mats) Lectr.  
 Stewart, J F, F R.S G S (Forest  
 Engn) Lectr.  
 Stewart, David S, B Sc. Lectr.  
 Patterson, C., A.M I.Mar.E. Lectr.  
 Stocks, G. M. Asst.

*English Lit and Rhetoric*

Grierson, H. J. C, M.A. Aberd,  
 B A. Ox, LL D. St And  
 Reg Prof.  
 Kitchin, G., M.A., D Litt. Lectr.  
 Dickins, Bruce, M.A. Reader.  
 Hislop, Gordon, M.A. Lectr.  
 Clark, A. M, M.A. Lectr.

*Entomology, v. Agric*

*Forestry, v. also Agric., Bot,  
 Engin.*

Stebbing, E. P., M.A. Prof.  
 Pike, J. L., M A, B.Sc. Lectr.  
 Fergusson, D. C., B Sc. Lectr.

*French and Rom Philol.* [Prof.  
 Sarolea, C., K.O L, Ph D., D Litt.  
 Liège, D.Jur. Cleve., LL.D.

Moore, J. M, M.A. Lectr.  
 Burns, Mary, M.A., D. de l'U.  
 Paris Lectr.  
 4 Assts.

*Genetics, Animal* [Prof.  
 Crew, F. A. E, M.D, Ph D, D.Sc.

*Geography*  
 Ogilvie, Alan G., M.A., B.Sc. Ox.  
 Reader.  
 Lennie, Alice B, M.A, B.Sc Lectr.  
 Geddes, A, D ès L. Asst.

*Geology*  
 Jehu, T J., M A., M.D. Reg Prof.  
 Campbell, R, M A., D.Sc. (Petro-  
 logy) Reader.  
 Finlay, T. M, M.A., B.Sc.  
 (Palæont) Lectr.  
 Craig, Robert, M A, B Sc. (Econ.  
 Geol).

*German and Teutonic Philol*  
 Schlapp, O, Ph.D. Prof.  
 Eggeling, H. F, M.A. Lectr.  
 Barker, Marie L., Ph D  
 Research Fellow and Lectr.  
 M'Neill, B. E, M.A. Asst.

*Hebrew and Semitic Langs.*  
 Kennedy, A. R. S., M.A., D.D.  
 Glas. and St And. Prof.  
 Cameron, D., B.D. Asst.

*Histology, v. Physiol.*

*History, v. also Comm., Div.*  
 Williams, A. F. Basil, M.A. Prof.  
 Heatley, D P., M.A. (Political  
 Science) Reader.  
 Balfour-Melville, E. W. M., M A.  
 Lectr.

Vinogradoff, I., B A.  
 Lectr. (Medieval and Gen.  
 European).

- Horn, D. B., M.A. Lectr.  
 Macdonald, N., M.A. Asst  
*History, Ancient (Gk. & Roman)*  
 Giles, A. F., M.A. Edin and Ox. Reader.  
*History, Ancient, and Palæog*  
 Hannay, R. K., M.A. Glas, LL.D. Prof.  
 St And. and Ox  
 Lemon, Miss E., M.A. Asst.  
*History (Constn of the B Emp, etc)*  
 Keith, Prof. A. B. Lectr.  
*History, Const. and Const. Law*  
 Dykes, D. O., LL.B. Prof.  
 Philip, J. R., M.A., LL.B. Asst.  
*Italian*  
 Purves, J., M.A. Lectr.  
*Law, v infra*  
*Logic and Metaphysics, v Philos.*  
*Mathematics*  
 Whittaker, E. T., M.A. Camb, Sc.D., F.R.S. Prof.  
 Horsburgh, E. M., M.A., D.Sc. A.M.I.C.E. Reader.  
 Gibb, D., M.A., B.Sc. Lectr.  
 Aitken, A. C., D.Sc. Lectr.  
 Copson, E. T., B.A. Lectr.  
 Whittaker, J. M., M.A. Lectr.  
 Ruse, H. S., B.A. Lectr.  
*Mathematics, Applied*  
 Schlapp, R., Ph.D. Camb Lectr  
*Mathematics, Technical*  
 ..... Asst  
*Medicine and Surgery, v infra*  
*Mining*  
 Briggs, H., Ph.D., D.Sc. Hood Prof.  
*Music*  
 Tovey, D. F., B.A., D.Mus. Ox., Mus.M. Reid Prof.  
 Shirlaw, M., Mus.D. Lectr.  
 Dunn, J. P., Mus.B. Lectr.  
*Natural History and Zoology*  
 Ashworth, J. H., D.Sc., F.R.S. Prof.  
 O'Donoghue, C. H., D.Sc. Lectr.
- Stephenson, J., C.I.E., M.B., D.Sc. Lectr.  
 Hobson, A. D., M.A. Lectr. (*Cytology and Exp. Zool.*).  
 Cameron, A. E. Lectr.  
 Simpson, J. Y., D.Sc. Lectr. (*Evolution*).  
 Harvey, Leshe A., B.Sc. Lectr. (*Zool.*).  
 Hilton, Irene A. T., B.Sc. Lectr.  
*Palæontology, v. Geol.*  
*Petrology, v. Geol.*  
*Philology, v French, Ger., Sansk.*  
*Philosophy*  
 Smith, N. Kemp, M.A., D.Phil. St. And., LL.D. Prof.  
 Hardie, R. P., M.A. (*Ancient P.*) Reader.  
 MacLennan, R. D., M.A. Lectr.  
 MacLagan, W. G. Asst.  
*Philosophy, Moral, v. also Psych.*  
 Taylor, A. E., M.A., D.Litt. Prof.  
 Barker, H., M.A. Lectr.  
 Yates, B. Lund Asst.  
*Philosophy, Natural* Prof.  
 Barkla, C. G., M.A. Camb., D.Sc. Liv., F.R.S., Nobel Laureate.  
 Darwin, C. G., M.A. Camb., F.R.S. Tait Prof.  
 Carse, G. A., M.A., D.Sc. Reader.  
 Milne, J. R., D.Sc. Lectr.  
 Childs, C. B., Ph.D. Lectr.  
 Clark, R. J., Ph.D. Lectr. (*Physics*).  
 Walker, D. A., M.A. Asst.  
 Ross, J. B., M.A. Asst.  
 3 Technical Assts.  
*Physiology*  
 Schafer, Sir E. A. Sharpey, LL.D., F.R.S. Prof.  
 Taylor, W. W., M.A., D.Sc. Lectr. (*Chemical P.*)  
 Cameron, May L., M.A., B.Sc., M.B. (Histol.) Lectr.  
 Bruce, A. N., M.D., D.Sc. (*P. of Nervous System*) Lectr.  
 Dryerre, H., Ph.D., M.R.C.S. „

Kennedy, W. P., B.Sc., M.B. Asst.  
 Cameron, J. D. S., M.B. Asst  
 Bain, W. A. Asst.  
 2 Technical Assts

*Pol. Econ*, v. Comm, Hist.

*Psychology*

Drever, J., M.A., B.Sc. Lond.,  
 D.Phil. Reader.

Collins, Mary, M.A., B.Ed., Ph.D.  
 Lectr.

Fairbairn, W. R. D., M.A., M.B.  
 Asst.

Sutherland, J. D. Asst.

*Public Health*

Lelean, P. S., C.B., C.M.G. Prof.

Langrishe, J. du P., M.B., D.P.H.  
 Lectr

Sutherland, I. N., M.B. Asst

*Public Health · Sanitary Administration*

Robertson, Wm., M.D. (M.O. for  
 the city)

Sr. Lectr. and Director of  
 Instruction.

*Rhetoric*, v. English

*Sanskrit and Comp. Philol*

Keith, A. Berriedale, M.A., D.Litt.,  
 D.C.L. Reg. Prof.

*Semitic Langs*, v. Hebrew

*Spanish*

Walton, L. B., M.A. Lond. Lectr

Wilson, John, M.A. Asst.

Meek, J. M., M.A. Tutor.

*Statistics*, v. Comm.

*Theology*, v. Divinity

*Zoology*, v. Nat. Hist.

## Law

*Administrative Law*

Wood, P. F., C.B., K.C., M.A.,  
 LL.B., M.A. Ox. Lectr.

*Agricultural Law*

Cowan, John, LL.B., K.C. Lectr.

*Civil Law*

Mackintosh, J., K.C., M.A. St.

And., B.A. Ox., LL.D. Prof.

Thomson, G. R., B.A., LL.B.

Asst.

*Constitutional Law*, v. Hist.

*Conveyancing*

Wedderburn, E. M., LL.B., D.Sc.,

W.S. Prof.

Campbell, A., LL.B., W.S. Asst

*English Law*

Chisholm, J., K.C. Lectr.

*Evidence and Procedure*

Lewis, W. J., M.A. Ox., B.L., S.S.C.

Reader.

*Industrial Law*

Taylor, J. O., M.A., LL.B. Lectr

*International Private Law*

Garrett, Wm., M.A., LL.B. Lectr.

*International Public Law*

Wilson, Wm., M.A., LL.B.

Reg. Prof.

Mackinnon, J. A. R., M.A., LL.B.

Asst

*Mercantile Law*, v. also Comm.

Lillie, J. A., LL.B. Lectr

Taylor, T. M., LL.B. Asst

*Scots Law*

[Prof.

Henderson, R. C., K.C., LL.B.

Simpson, T. B., LL.B. Asst.

*Medicine* (for subjects of the first

2 yrs.—Anat., etc., v. *supra*)

*Bacteriology*, v. Path.

*Children, Diseases of*

M'Neil, C., M.D. Lectr.

Carmichael, N. S., M.B. Lectr.

Thatcher, L. H. F., M.D. Lectr.

Hertzfeld, Gertrude, M.B. Lectr.

Dott, N., M.B. Lectr.

Murray, J. M'N., M.B. Asst.

Finlay, T. Y., M.D. Asst.

Alexander, W. A., M.B. Asst.

*Dermatology, Clinical*

Gardiner, F., M.D. Lectr.

Low, R. C., M.D. Lectr.

Aitken, R., M.D. Lectr.



Percival, G. H., M.B.  
Asst. (in D. and Mat. Med.).

*Eye, Diseases of the*

Sinclair, A. H. H., M.D. Lectr.  
Traquair, H. M., M.D. Lectr.  
Cameron, E. H., M.B. Lectr.  
Graham, C. W., M.B. Lectr.  
Ligertwood, Laura M., M.B. Asst.  
Paterson, J. A., M.B. Asst.

*Forensic Med.* [Reg Prof.

Smith, S. A., M.D., Ch.M.  
Mason, Victor H., M.B. Lectr.  
Miller, W. G., M.B. Asst.

*Gynæcology, Syst. and Clin.*

Fordyce, W., M.D. Lectr.  
Davidson, H. S., M.B. Lectr.  
Young, James, M.D. Lectr.  
Haultain, W. F. T., M.B. Lectr.  
Millar, D. A., M.B. Lectr.

*History of Med* [Lectr.

Comrie, J. D., M.A., B.Sc., M.D.

*Infective Fevers*

James, A., M.D. Lectr.  
Benson, W. T., M.D. Lectr.

*Laryng., Ot., and Rhinology*

Fraser, J. S., M.B. Lectr.  
Lithgow, J. D., M.B. Lectr.  
Gardiner, W. T., M.B. Lectr.  
Martin, G. E., M.B. Lectr.  
Stewart, J. P., M.B. Asst.

*Materia Medica* [Prof.

Clark, A. J., B.A., M.D., F.R.C.P.  
White, A. C., Ph.D. Lectr.  
Affleck, A. M., M.B.  
Percival, G. H., M.B. Asst.  
Walker, A. B., M.B.  
1 Tech. Asst.

*Medicine*

Ritchie, W. T., M.D. Prof.  
Wightman, A. R., M.D. Asst.

*Medicine, Clinical*

Bramwell, E., M.D.  
Moncrieff-Arnott Prof.  
Watson, D. C., M.D. Sr. Lectr.  
Matthew, E., M.D. Sr. Lectr.

Ritchie, W. T., M.D. Sr. Lectr.

Eason, J., M.D. Sr. Lectr.

Comrie, J. D., M.D. Sr. Lectr.

Goodall, A., M.D. Lectr.

Mathewson, G. D., M.D. Lectr.

Hewat, A. F., M.B. Lectr.

Wemyss, H. L. W., M.D. Lectr.

Lambie, C. G., M.B. Lectr.

Small, W., D.D., M.D. Lectr.

Rutherford, A., M.B. Lectr.

Alexander, W. A., M.B. Asst.

Slater, J. K., M.B. Asst.

7 Clin. Tutors

*Mental Diseases, v. Psychiat.*

*Midwifery and Diseases of Women*

Johnstone, R. W., M.A., M.D. Prof.

Fahmy, E. C., M.B. Sr. Asst.

Sturrock, J., M.B. Jr. Asst.

5 other Lectrs., 3 Tutors, and 1 Tech. Asst.

*Neuro-Pathology*

Reynolds, F. E., M.B. Lectr.

Carmichael, R., M.B. Supervisor

*Pathology and Bacteriology, v. also Anat—Morb.*

Smith, J. Lorrain, M.A., M.D., LL.D., F.R.S. Prof.

Mackie, T. J., M.D. Irvine Prof (Bact.).

M'Lachlan, D. G. S., M.B. Lectr.

Gray, J. D. A., M.B. Asst.

Gibson, H. J., M.B. Asst.

Begbie, R. S., M.B., Ph.D. Asst.

Rettie, T., D.Sc. Lectr.

Mackenzie, R. D., M.B. Lectr.

Macgregor, Agnes R., M.B. Asst.

Carmichael, R., M.B. Asst.

Millar, W. G., M.B. Asst.

Muir, R. Demr. of Methods.

*Psychiatry*

Robertson, G. M., M.D. Prof.

M'Alister, W., M.B. Lectr.

*Pub. Health, v. supra*

*Radiology and Electrical Therapeutics* [Lectr.  
Morison, J. M. Woodburn, M.D.

*Sanitary Administration, v. supra*  
*Surgery*

Wilkie, D. P. D., O.B.E., M.D.,  
Ch.M. Prof.

Fraser, J., M.D., Ch.M. Reg Prof.

Skirving, A. A. S., C.M.G., M.B.  
Senr. Lectr.

Chiene, G. L., M.B. Senr. Lectr.

Stuart, W. J., M.B. Senr. Lectr.

Struthers, J. W., M.B. Senr. Lectr.

Wade, H., M.D. Senr. Lectr.

Graham, J. M., M.B., Ch.M.  
Senr. Lectr.

Watson, A. Pirie, Ch.M. Lectr.

Jardine, F. E., M.B. Lectr.

Wood, W. Q., M.D., Ch.M. Lectr.

Mercer, W., M.B. Lectr.

Cochrane, W. A., M.B. Lectr.

Stewart, R. L., M.B. Lectr.

Brown, K. P., M.B. Lectr.

Shaw, J. J. M., M.B. Asst.

7 Clin. Tutors.

1 Tech. Asst.

1 Teacher of Anæsthetics.

*Therapeutics and Chemical Medicine*

Lyon, D. Murray, M.D., D.Sc. Prof.

Lambie, C. G., M.B. Asst.

Lamb, W. L., M.B. Asst.

Gilchrist, A. R., M.B. Lectr.

Redhead, F. A., M.B. Asst.

..... Chemist.

*Tropical Climates Diseases*

Greig, Lt.-Col. E. D. W., C.I.E.,  
I.M.S. Lectr.

*Tuberculosis*

Philip, Sir Robert W., M.A., M.D.,  
LL.D. Prof.

Hewat, A. F., M.B. Asst.

Simpson, J. C., M.B. Asst.

*Venereal Diseases*

Lees, David, M.D. Lectr.

Liston, Mary F., M.B. Asst.

Lees, R., M.B. Asst.

Batchelor, R. C. L., M.B. Asst.

**University Extension**

20 Tutors, including 3 Univ. Profs.  
and 11 Univ. Lectrs.

**ASSOCIATED COLLEGES**, in which Univ. courses are provided  
at Edinburgh.

EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE. Principal,  
Ernest Shearer, M.A., B.Sc.

HERIOT-WATT COLLEGE. Principal, .....

NEW (UNITED FREE CHURCH) COLLEGE. Principal, Alex. Martin, D.D.

ROYAL (DICK) VETERINARY COLLEGE. Principal, O. C. Bradley, M.D., D.Sc.

## GENERAL INFORMATION

Originally the "Town's College," founded in 1583 by the Town Council under general powers granted by Royal Charter, April 14, 1582. The Old College on the site of "Kirk o' Field," the scene of the murder of Lord Darnley, was designed by Robert Adam, and completed in 1838. Newer buildings include the Medical Buildings and the M'Ewan Hall (1888-97), which holds 2600 and has a great electric organ; and "The King's Buildings" (1920-24) for Chemistry and other Science Departments. The Medical School of this Univ. has been famous for many generations; specially ample provision exists also for instruction and research in Theology (post-graduation school instituted 1919), Agric., Forestry, Engin., Mining, and Vet. Sc. Edinburgh is the seat of the Scottish Supreme Courts of Law.

**LIBRARY**, founded in 1580, 350,000 vols., 8000 MSS., includes special collections — Shakespearean, Sanskrit, Celtic, Persian, and Arabic MSS., Economics (Hodgson), Math. tables by E. Sang, transactions of Engin. Societies in Great Britain and America, the Laing Charters (A.D. 854–1837), the Laing manuscripts, the Abercromby collection of 2500 vols. on archæology, ethnology, etc.; the Blackie collection of modern Greek books, the Bruce collection of books on oceanographical subjects, the Cameron collection of Celtic literature. **MUSEUMS** Nat. Philos., Fine Art, Geol., Nat. Hist., Chem., Forestry, Agric., Entom. and Forest Zool. (Waterhouse collection of Coleoptera), Anat. (founded with the Monro collection in 1800; numerous specimens of Cetacea and human crania), Physiol., Mat. Med. (notable collections of medicinal and food substances, including those of Duncan and Christison), Forensic Med., Practice of Physic, Surg., Obst. (Simpson collection), Music and Musical Instruments. The Prof. of Botany is Regius Keeper of the *Royal Botanic Garden*, the Prof. of Astronomy is Astronomer Royal for Scotland and gives practical courses at the *Royal Observatory*. The **LABORATORIES** are especially well equipped for research in Anatomy, Anthropology, Bacteriology, Chemistry (the new Laboratories at King's Buildings, which were completed in 1924, have accommodation for about 400 students), Engin. (notably Hydraulics, Strength of Materials, Elec. Engin.), Mat. Med., Path., Physics, Physiol., Psych., Pub. Health (Institute built 1902, costing £21,000). The Univ. has a table at the Millport Marine Station. **HOSPITALS**: the Royal Infirmary adjoining the Univ. provides over 900 beds for clinical teaching, in addition to the Children's, Maternity, and Fever Hospls., and Lunatic Asylums. Over 50 resident posts in these are given annually to Med. graduates.

**FACULTIES.** (1) Arts, (2) Science (including Engineering, Mining and Metallurgy, Technical Chemistry, Public Health, Agriculture, Forestry, and Veterinary Science, as well as Pure Science), (3) Divinity, (4) Law, (5) Medicine, (6) Music. Deans: (1) Prof. H. J. C. Grierson (English), (2) Prof. Sir T. Hudson Beare (Engin.), (3) Prof. Paterson, (4) Prof. Mackintosh, (5) Prof. Lorrain Smith (Path.), (6) Prof. Tovey.

**DEGREES AND DIPLOMAS** (v. Scottish Univs.). A diploma in *Education* is granted on completion of Univ. courses (1 yr.) and passing examns. in Psych., Theory and Hist. of E., and modern E. Systems and Problems. Candidates must have attended a course of Professional training or have had at least 3 yrs.' experience as a teacher, and must have completed a graduation course in Arts. Diplomas are also granted in *Actuarial Mathematics* (2 yrs.), *Forestry* (2 yrs., open only to ex-Service men and Indian students selected as Forest probationers who have taken an Honours degree in Science at an Indian Univ.), *Geography* (open to graduates or students about to graduate in Arts or Science), *Technical Chemistry* (open to graduates who have taken a degree in Science with Honours in Chemistry), and a Diploma and a Certif. in *Social Study*.

A candidate for the B.Sc. in *Vet. Sc.* must (i.) have passed the Prelim. examn. for degrees in Sc., (ii.) have been engaged in Vet. study for 4 yrs., (iii.) have a registrable qualification, (iv.) have attended certain specified courses, including 1 yr. of study in this Univ. The Royal (Dick) Vet. Coll., Edin., provides certain of the qualifying courses.

Diplomas in *Pub. Health* (1 yr. course), in *Tropical Med. and Hygiene* (3 mos.), in *Psychiatry* (1 yr.) and in *Radiology* (1 yr.), are open to graduates of the Univ. and registered Med. practitioners.

Candidates for the *Mus B.* must have passed the Preliminary Examination, or its equivalent, and attended a course in this Univ. during a whole winter session. A *Mus.B.* of 3 yrs.' standing may offer himself for the *Mus.D.*

(which may also be conferred *honoris causa*) as Composer, as Executant, or as Theorist or Historian.

#### RECOGNITION OF INSTITUTIONS AND TEACHERS outside the United Kingdom:

(a) For exemption from one (not the final) year of the course for M.A. or for B.Com. and from attendance on classes in and examn. in two subjects for the Ordinary Degree: the following Univs.—Alb., Dal., McG., Manlt., Queen's (Kingston), Tor., Adel., Melb., Syd., N.Z., S. Africa, All., Bom., Calc., Mad., Panj., Paris, Tokyo, Osaka, Sendai, and such other Univs. as the Univ. Court may from time to time approve; graduates of the American institutions listed in Appendix XXIV

(b) For some of the courses for the B.Sc.: Madras Coll. of Agric., Colls. affiliated up to B.A. and B.Sc., and Engin. Colls. affiliated to the Indian Univs., Univs. and Polytech. Sch. supported and regulated or recognized by Govts. in Europe.

(c) For admission as graduate in Arts to the LL.B. examn.: the Univs. of All., Calc., Mad. V. also (f).

(d) For 2 of the 3 yrs.' study for LL.B.: McGill Univ., Madras Law Coll., Law Coll., Trevandrum, Ripon Coll., Calc.

(e) For 3 of the 5 yrs. of Med. study recognized teachers in Singapore (in Physiol. and Practice of Med.) and Wellington, S. Africa (in Chem.)

(f) For admission of graduates from these institns. to study for the Ph.D. degree (General Recognition is also granted to them in terms of the various Graduation Ordinances): the following Univs.—Dal., King's Coll. (N.S.), Laval, McG., Manlt., Queen's (Ont.), Tor., Adel., Melb., Queensland, Syd., W. Aust., N.Z., Cape Town, S. Africa; all Colleges affiliated to these Univs., Univs. and Colls. approved by the Assocn. of American Univs.

POST-GRADUATE COURSES in Medicine are held during the Summer and Autumn Terms and the *Summer Vacation*. Particulars obtainable from the Hon. Sec., P.G. Courses in Med., Univ. New Buildings, Edinburgh. The Post-graduate School of Theology issues a detailed list of courses. Graduates contemplating research should apply to the Deans.

SCHOLARSHIPS Total annual value over £24,000; for graduates only, £6000. Most are open to colonial and foreign students. The Earl of Moray's Endowment provides about £1200 p.a. for research.

Travelling for study or research is encouraged by Dickson Fund (£90 p.a.), Dundas Latin Studies Fund (£45 p.a.), Drummond Mathematical Scholarship (£135 p.a. for 3 yrs.), Maclaren Mathematical Scholarship (£170 for 3 yrs.), Scott Scholarship for Graduates in Arts (£70), M'Cosh Bursaries for Graduates in Medicine (£300).

FEES (v. Carnegie Trust) Inclusive tuition fees for LL.B., 42 gs.; B.L., 30 gs.; B.Sc. Engin., 90 gs.; Agr. Ord., 90 gs.; Hons., 120 gs.; Mining, 105 gs.; Forestry, 105 gs.; Technical Chemistry, 120 gs.; Pure Sc., 100 gs.; B.D., 33 gs.; M.B., Ch.B., including Hospl. Fees, 205 gs. Combined M.A. and B.Sc. in Pure Sc., 130 gs.; M.A. and B.Sc. in Agr. or Engin., M.A. and B.Com. or LL.B., 70 gs.; M.A. and B.L., 65 gs.; B.Sc. in Agr. and in For., 135 gs. Graduation examns.: M.A., 7½ gs.; B.D., 7½ gs.; LL.B., 9 gs.; B.L., 7½ gs.; Mus.B., 15 gs.; Mus.D., 15 gs.; Ph.D., 10 gs.; B.Sc., 9 gs.; D.Sc., 15 gs.; M.B., 33 gs.; M.D., 20 gs.; Ch.M., 20 gs.

HALLS OF RESIDENCE, ETC. For men: University Hall on a self-governing basis (information from Messrs. Whitson and Methuen, 21 Rutland Street). Board and lodging about £2:12:6 a week. For women: East Suffolk Rd., Craigmillar Park (Warden), £50 for the three terms; Masson Hall, 31 and 32

George Square (Warden) ; and Muir Hall, 12 George Square (Warden), 33s. 6d. to 47s. 6d. Six months' notice generally necessary.

There is a Franco-Scottish Society for advising and assisting French students in Scotland and Scottish students in France. It has local centres at Glas., Aberd., and Dundee.

Indian Students' Adviser: Maj. J. E. Mackenzie, D.Sc.

UNIV. EXTENSION, ETC. The Univ. is now represented on the Advisory Committees for the management of the Tutorial Classes for adults instituted by the Edin. Educational Authority, in co-operation with the Edinburgh W E A. Summer Classes (4 weeks) for Teachers are held during vacation, the lecturers being drawn mainly from the Univ. staff. Certificates gained at the courses qualify for endorsement on teachers' certificates.

OFFICIAL PUBLICATIONS. The *Calendar* (Aug.), 5s.; the *Prelim. and Degree Examn. Pprs.* (May and July), 5d. to 2s. a set (James Thin, 55 South Bridge). The *Students' Handbook* issued by the Students' Representative Council. Facilities for advanced Study and Research free on application.

HISTORIES OF THE UNIV. Bower, Alexr., chiefly compiled from original papers and records, never before published, 3 vols, Edin., 1817-30; Dalzel, Andrew (ed by D. Laing), with a Memoir of the Author (by C. Innes), 2 vols, Edin., 1862, Grant, Sir Alexr., The Story of the Univ. during its first 300 years, 2 vols, London, 1884.

## THE YEAR 1927-28

BENEFACTIONS. Mr. James Sanderson of Galashiels, bequest of £35,000 for the development of Engineering and Chemistry. A capital grant of £3000 and an annual grant of £1000 for five years from the Empire Marketing Board to the Animal Breeding Research Department for wool research. £2000 from Lord Forteviot for the Animal Breeding Research Department. £200 from students and others to found the "Wallace Prize" in Agriculture. Lady Lyell of Kinnordy, valuable books and collections of minerals, rocks, and fossils. Books for the Political Economy Library from Mrs A. G. Morrison of Dunblane. Four topographical relief models and other apparatus to the Department of Geography from the Director of the Science Museum, Kensington. Prof. Littlejohn, bequest of the Museum and collection of books on Forensic Medicine formed by himself and his father. £500 (bequest) from Mr William Forrester for the further endowment of the Chair of Therapeutics. £500 from Mr. and Mrs R. D. Macgregor, Lamington, to the Department of Zoology. £420 from William Manson, Wick, to the Department of Mathematics to found the "William Manson Memorial Prize."

RECENT DEVELOPMENTS. The University Court has assumed control of the Animal Breeding Research Department. Plans for new buildings for the Department have been passed, and the work has commenced. An Ordinance founding the Buchanan Chair of Animal Genetics has been approved by the King in Council. As a tentative arrangement for two years it was agreed that a course of dental instruction be given to students of the fourth year in medicine while attending the class of diseases of the ear, nose, and throat. The Edinburgh School of Social Study and Training, started in the year 1918 is an independent body granting its own Diploma, has been incorporated in the University. The Diploma in Tropical Medicine and Hygiene has been recognized by the Sec. of State for the Colonies as a qualification for appointment as Junior Public Health Officer in the Colonial Medical Service.

DEATH. Sir Henry Cook, Factor and Law Agent to the University since 1890.

HONORARY DEGREES. *D.D.*—J. Baikie, W. S. Crockett, Lord Sands, Rev. W. G. Dixon. *LL.D.*—Sir John R. Bradford, Lord Constable, F. G. Donnan, J. C. Ewart, J. H. Ferguson, R. A. Fleming, Sir John Gilmour, M.P., G. L. Gulland, J. A. Hood, W. C. Johnston, Sir Robert S. Lorimer, André Maurois, W. A. Neilson, Dame Mary D. Scharlieb, H. S. Wellcome, Niels Bohr, M. Huber. *Mus.D.*—Mrs. M. K. Fraser.

STUDENTS. Full-time. total, 3625, including 503 graduates. Part-time : total, 634, including 178 graduates

DEGREES. *D.Litt.*, 3, *D.Sc.*, 6, *M.D.*, 31; *Ch M.*, 1; *Mus.Doc.*, 1; *Ph.D. Divinity*, 12, *Ph.D. Medicine*, 7, *Ph.D. Arts*, 7; *Ph.D. Science*, 13, *B.D.*, 5, *B.Ed.*, 11, *LL.B.*, 11; *B.L.*, 9, *M.B.*, *Ch B.*, 145; *M.A. Hons.*, 105; *M.A. Ord.*, 292; *B.Com.*, 39, *B.Sc. Pure Sc. Hons*, 36, *Ord*, 6; *B.Sc. Engin. Hons.*, 18, *Ord.*, 16; *B.Sc. Mining*, 4, *B.Sc. Tech. Chem.*, 1; *B.Sc. Agric. Hons.*, 2, *Ord.*, 6, *B.Sc. Forestry*, 12, *B.Sc. Veterinary Science*, 3, *Mus B.*, 4. DIPLOMAS: *Education*, 52, *Geography*, 3, *Social Study*, 8, *Cert. do.*, 8, *Actuarial Maths.*, 3, *Forestry*, 1; *Public Health*, 10, *Trop. Med. and Hygiene*, 6; *Psychiatry*, 2; *Radiology*, 5.

# UNIVERSITY OF GLASGOW

CHANCELLOR—THE EARL OF ROSEBERY AND MIDLOTHIAN, K.G , K.T.

VICE-CHANCELLOR AND PRINCIPAL—SIR DONALD MACALISTER, Bt.,  
K.C.B., M.A., M.D., D.C.L., LL.D., D.Sc., F.R.C.P.

RECTOR—The Right Hon. STANLEY BALDWIN, M.P (elected 1928).

DEAN OF FACULTIES—Emeritus Prof. Sir H. C. CAMERON, C.B.E., M.D.,  
LL.D. For Dean of each Faculty, see under "General Information"—Faculties.

SECRETARY TO THE UNIV. COURT—A. E. CLAPPERTON, B.L., LL.D.

CLERK OF SENATE—The Very Rev. Prof. G. MILLIGAN, D.D., D.C.L.

REGISTRAR—ROBT. BROUGH.

LIBRARIAN AND KEEPER OF HUNTERIAN BOOKS AND MSS.—W. R.  
CUNNINGHAM, M.A.

CLERK OF THE GENERAL COUNCIL—J. J. CRAIK HENDERSON, B.L.

## QUEEN MARGARET COLLEGE

Mistress—Miss F. H. MELVILLE, M.A., B.D., LL.D.

## UNIVERSITY COURT

THE RECTOR, *ex officio*.

THE PRINCIPAL, *ex officio*.

THE LORD PROVOST OF GLASGOW,  
*ex officio*.

The Right Hon. LORD MACLAY,  
LL.D.

WM. BRODIE, B.L., LL.D.

J. BRUCE MURRAY, LL.D.

R. A. DUFF, M.A., D.Phil.

D. MACGILLIVRAY, M.A., LL.D.

J. F. FERGUS, M.A., M.D.

Prof. GLOAG, K.C., LL.D.

Prof. W. MACNEILE DIXON,  
LL.D., LL.D.

Prof. G. G. HENDERSON, M.A.,  
D.Sc., LL.D., F.R.S.

Prof. E. P. CATHCART, C.B.E.,  
M.D., D.Sc., LL.D., F.R.S.

DAVID SMITH.

## PROFESSORS, LECTURERS, ETC.

### *Accountancy*

Loudon, J., M.A., C.A. Prof.

Davidson, W. L., C.A. Asst.

### *Anatomy*

Bryce, T. H., M.A., M.D. Edin.,  
F.R.S. Reg. Prof.

Maclaren, Norman, Ph.D. (Em-  
bryology) Lectr.

Nicol, T., M.B. (Regional A.) „

Patrick, Wm., M.B., Ch.B. Demr.

Henderson, E. E., M.B. Demr.

Jarvie, J., B.Sc., M.B. Demr.

Wyburn, G. M., M.B. Demr.

Dickson, Lilian, M.B. Lectr.\*

\* At Queen Margaret Coll.

Davidson, A M , M.B. Demr.\*  
2 part-time Demrs

*Arabic*

Robson, J , M.A. Lectr

*Astronomy*

Becker, L , Ph D Bonn Reg Prof

Connell, J., M.A. Lectr

Ross, John J , M.A. Demr

*Botany*

Drummond, J. Montagu F., M A ,  
F L S Reg. Prof.

Williams, Samuel, M Sc. Manc ,  
Ph D Lectr.

Thomson, J , M A , B.Sc , Ph D  
Lectr.

Jones, S G , D Sc Lectr

Case, Isabella M , B Sc Asst

Bond, G., B Sc. Asst.

*Celtic*

Calder, G , B D., D Litt Edin [Lectr

*Chem*, v also *Physiol*

Henderson, G. G , D Sc , F R S ,  
LL D. St. And Reg Prof

Bolam, H W , B Sc Edin , Ph D  
Lectr \*

Knox, J , D.Sc. Aberd  
Lectr for Med Students

Roberts, J., M.A. Lectr

Henderson, A , M A , B Sc Lectr

M'Millan, A , M A D Sc  
Lectr (Analytical Chem)

Gibson, D T , M Sc , Ph D  
Carnegie Teaching Fellow.

Mair, J A , B Sc , Ph D  
Carnegie Teaching Fellow

Morrison, Jane, M A Asst \*

Lewin, Christina T., B Sc. Asst.

Robertson, J M , B.Sc , Ph D  
Asst

Chisholm, D , B Sc , Ph D. Asst.

Stewart, Eliz C , M A , B Sc  
Asst \*

M'Culloch, W. P , B Sc Asst.

Bell, J , B Sc Asst

M'Gregor, T , B Sc Asst

*Chem., Organic* [Gardiner Prof.  
Patterson, T. S , D.Sc. Lond. &  
Glas., Ph D. Heid.

Tucker, S. H , M A. Ox , M Sc ,  
Ph D Lond. Lectr.

Buchanan, C , B.Sc., Ph D Lectr

Stevens, T S , B Sc , D Phil. Ox.  
Carnegie Teaching Fellow

Kent, Andrew, M.A., B Sc. Asst.

Somerville, R , M A , B Sc. Asst

Storrie, F. R , B Sc Asst

Robertson, J , B Sc. Asst  
1 tempy. Asst.

*Chem., Physical*

Wright, Robert, D.Sc Belf. Lectr.

Mitchell, Stotherd T. R. S , B.Sc.,  
Ph D.  
Carnegie Teaching Fellow.

*Classics*, v also *Philol.* [Prof.

Davies, G A , M A Camb. (Greek)

Gomme, A. W , B A Camb  
(Greek and Greek History)  
Lectr.

Kitto, H D. F , B A Ox. (Greek).  
Lectr

Paterson, J , M.A. Lectr.

Rennie, W., M A. (Humanity)  
Prof.

Nisbet, R. G , M A (Latin) Lectr.

M'Glynn, P., M A (Latin) Lectr.

Burn, R , B A. (Latin) Lectr.

Austin, R. G., M A Ox (Latin)  
Lectr.

*Divinity*, v. also *Hebrew*

Fulton, W , B.Sc , D.D.  
Primar Prof.

Milligan, Very Rev G., D D.  
Aberd., D C.L. Durh (Bibl.

Crit.) Reg Prof

Main, A., M.A. Glas., B.A. Ox.,  
D.Litt., D.D. (Church Hist.)  
Reg. Prof.

Haldane, J. S., M.A , M.D., LL.D.  
Gifford Lectr. in Natural

Theology.

*Economics*, v. *Pol & Social Econ.*



*Education*

Boyd, W., M A , B Sc , D.Phil. [Lectr.  
 Smith, J. W. D., M.A., Ed.B. Lectr

*Embryology, v. Anat.**Engineering, v also Naval*

Goudie, W J., D Sc.  
 J Watt Prof. of Theory  
 and Practice of Heat  
 Engines  
 Small, J., B.Sc. Lectr  
 Geyer, E. W., B.Sc. Lectr.

*Engin., Civil and Mech*

Cormack, J. D., C M G , C B E .  
 D Sc Reg. Prof  
 Brown, R M , D.Sc , Ph D. Lectr  
 Keown, J. E , B Sc (Drawing and  
 Design) Lectr  
 Morrison, J C , B.Sc. Lectr  
 Thom, A , B Sc , Ph.D  
 Carnegie Teaching Fellow  
 Wilson, J , B Sc Asst.  
 Kelly, S N , B Sc Asst.  
 Orr, J , B Sc Asst

*Engineering, Electrical*

Howe, G W O , D Sc Durh and  
 Adcl. J Watt Prof  
 Hague, B , D Sc Lond , Ph D.  
 Lectr  
 Scobie, J , B Sc. Lectr  
 Small, A. J , B Sc. Lectr.

*Engineering Production*

Sloan, K M Lectr

*English Language and Literature*

Dixon, W. M , Litt D Dub., LL.D  
 Aberd. Reg Prof  
 Bickersteth, G L , M A Lectr.  
 Girvan, R , M A. (Eng Lang.)  
 Lectr.  
 Alexander, P , M A Lectr.\*  
 Sutherland, J. R., M A., B.Litt.  
 Lectr.  
 Gray, Margaret M , M A Lectr.  
 Wright, Bernard A., B A. Ox  
 Lectr.  
 May, Maude G., M A. Lectr.

*French*

Martin, C. A., M.A. Paris, O.I.P.,  
 Ch. L.H , C G. Prof.  
 Pitoy, L. M., B.Sc., L. ès L. Phil.  
 Lectr.  
 Pitoy, Mary C., M.A. Lectr.  
 Ferguson, Marjorie M., M.A.  
 Lectr.

Silver, R. C , M A., L. ès L Lectr.  
 Perroy, E. Lectr.  
 Lauradon, G Asst.  
 Poisson, J R Asst.

*Geography*

Stevens, A., M A., B.Sc Lectr.  
 Wood, H J , B Sc. Asst.  
 Grieve, Eliz M , B Sc Asst  
 Talbot, W J , B Sc. Asst.

*Geology*

[Prof.  
 Gregory, J W , D.Sc Lond , F.R S  
 Tyrrell, G. W , Ph.D , A.R C.Sc.  
 Lectr.  
 Neilson, Agnes T , M A. Lectr.  
 Weir, J , M A , Ph D. Lectr.  
 Barrett, B. H., M.A., B Sc.  
 Carnegie Teaching Fellow.  
 M'Callien, Wm. J , B Sc. Lectr.  
 Currie, Ethel D., B.Sc , Ph.D.  
 Lectr.

*German*

Smith, H., M.A. St. And., Ph D.  
 Marburg Willham Jacks Prof  
 Clark, James M , M A , Ph D Lectr.  
 Murray, Lillias F., M A. Asst.  
 Flint, Mary C , M.A. Asst.

*Hebrew and Semitic Langs*

Stevenson, W. B., D Litt., D.D.  
 Edin. Prof.  
 Harris, E. J , B.D. Asst.

*History, v. also Div., Law, Pol.  
Econ*

Medley, D. J., M A. Ox. Prof.  
 Browning, A., M.A. Lectr.  
 Sayles, G. O., M.A. Lectr.  
 Lees, Greta C., M.A. Lectr.  
 Hislop, Ian G , M.A. Asst.  
 Miller, S. N , M.A. (H. and Antiq.,  
 Roman) Lectr.

\* At Queen Margaret Coll.

Rait, R. S., C.B.E., M.A. Ox.,  
LL.D. (H. and Lit., Scot.)

Prof.

Pryde, G. S., M.A., Ph D St.  
And. Asst.

Douglas, D. C., B.A. Ox. (Mediaeval  
H.) Lectr.

Lees, R. M., M.A. (British H)  
Lectr.

*Humanity, v Classics*

*Italian* [Stevenson Prof.

Grillo, Cav. E., K.C.O.I., M.A.,  
Litt.D. Flor, LL.D. Perugia

MacKinnon, A. D., M.A. Lectr.

Obertello, Alfredo, D Lit Asst.

*Law, v. infra*

*Logic and Rhetoric*

Paton, H. J., M.A. Prof

Brown, George, M.A. Lectr

Levet, Margaret J., M.A. Lectr

Haydock, G. H., M.A., B Litt. „

Dickie, J. S., M.A., B.Sc. „

Cousin, D. R., B.A. Asst

*Mathematics* [Prof.

MacRobert, T. M., M.A., D.Sc

M'Arthur, N., M.A., B.Sc. Lectr

M'Whan, J., M.A., Ph.D. Lectr.

Arthur, W., M.A. Lectr

Hyslop, J., M.A., Ph.D. Lectr.

Rankine, Jean C., M.A., B.Sc

Lectr

Robb, R. A., M.A., B.Sc. Lectr.

Brown, George, M.A. Asst.

Thomson, George, M.A. Asst.

Anderson, A., M.A., B.Sc. Asst.

Smith, J. H., M.A. Asst.

*Medicine and Surgery, v. infra*

*Metallurgy, etc, v. R. Tech*  
Coll.

*Mining*

Dron, R. W., M.A. Dixon Prof

Adam, D., B.Sc. Lectr.

*Naval Archt., including Marine*  
*Engin.*

Hillhouse, P. A., D.Sc.

John Elder Prof

Evans, D. L., B.Sc. Lectr.

*Philology, Comparative (Classi-  
cal)*

Pirie, J. W., M.A. Aberd. Lectr.

*Philosophy, Moral, v also Logic*  
*and Psychol* [Prof

Bowman, A. A., M.A., Litt D.

Phillips, I. W., M.A. Lectr.

Campbell, C. A., M.A. Lectr

Lamont, W. D., M.A. Asst.

*Philosophy, Natural*

Jones, E. Taylor, D.Sc.Lond. Prof.

Cochrane, Charles, M.A., B.Sc.

Lectr

Houstoun, R. A., D.Sc., Ph.D.

(Physical Optics) Lectr.

Shearer, J. F., M.A., B.Sc. Lectr.

M'Farlane, W., M.A., B.Sc. Asst.

*Physics, Applied*

Gray, J. G., D.Sc. Cargill Prof

Allan, G. E., D.Sc. Birm.

Arnott and Thomson

Demr. in Expl. Physics

and Lectr. in Elec-

tricity.

Green, G., M.A., D.Sc. Lectr

Gray, R. C., M.A., D.Sc. Lectr.

Younger, A. J., M.A., B.Sc. Lectr

*Physiology*

Cathcart, E. P., C.B.E., M.D.,

D.Sc., F.R.S. Reg Prof

Watson, A. M., M.A., Ph.D. (His-

tology) Lectr

Wishart, G. M., B.Sc., M.D.

Grieve Lectr.

Garry, R. C., M.B.

Lectr. & Demr

Burnett, W. A., B.Sc., M.B. Asst.

*Physiological Chem.*

..... Gardiner Prof.

Wilson, H. E. C., M.B. Asst.

*Polit. Econ.*

Scott, W. R., Litt.D. Dub., D Phil.

St And. Prof.

Smith, C. F., B.A. Camb

Lectr (Econ Hist.).

Nisbet, J. W., LL.B. Asst.

*Political Philosophy*

White, Alex. K., M.A. Lectr.

*Psychology* [Lectr.  
Thouless, R. H., Ph D, M A.

*Russian* [Sir William Weir Lectr  
Brennan, H. G, M A. Lond.

*Social Economics*  
Cunnison, James, M.A. Lectr.

*Spanish*  
Entwistle, W. J., M.A.  
Stevenson Prof.  
Olivar, M. Asst.

*Theology*, v. Divinity

*Zoology*  
Kerr, J. Graham, M A Camb,  
F.R.S. Reg Prof.  
Carter, G S, B A, Ph D Camb.  
Lectr

Jepps, Margaret W, M A Lectr.  
Staig, R A, M A Lectr  
Miller, Agnes E, M.A. Asst.  
Parsons, C W, B A. Camb. Asst  
Ballantyne, Frances M, M A.  
Asst.

Thumley, James Research Fellow.

## Law

Hoag, W. M., K.C., B A Ox,  
LL D. Edin. Reg Prof.

*Civil Law* [Lectr.  
Muirhead, J. S., B.A. Ox, LL B.

*Const. Law and Hist.*  
Mungo, D. B, LL B. Lectr.  
McLeish, D. A. S., LL B Asst.

*Conveyancing*  
Muirvan, J, LL B. Prof.  
Kay, A, LL B Asst.

*Evidence and Procedure*  
Samond, R., LL B. Lectr.

*Internat. Law, Public, and In-  
ternat Private Law*  
Nicol, R. M., LL B. Lectr.

*Jurisprudence, Genl*  
McIntosh, H., LL.B. Lectr.

*Mercantile Law*  
Nright, T G., LL B Prof.  
Dickson, D S., LL.B. Asst.

*Medicine* (for subjects of first 2  
yrs.—Anat., etc., v. *supra*)

*Bacteriology* [Gardiner Prof.  
Browning, C. H., M.D, D.P.H.  
Dunlop, E. M., M.B Lectr.

*Bio-Chemistry*, v. Pathological

*Dermatology*  
Tomkinson, J G, M D  
McCall Anderson Mem Lectr  
Smith, J. Ferguson, M.A., M B.  
Lectr.

*Ear and Throat and Nose,  
Diseases of*  
Young, G, M B. Lectr  
Harper, James, M A, M.B. Lectr.

*Electrical Diagnosis and Thera-  
peutics* [Lectr.  
Riddell, J R., F R F P S.G.  
MacLean, A B, M D. Lectr.

*Eye, Diseases of the*  
Ballantyne, A. J., M.D. Lectr.

*Forensic Medicine* [Reg. Prof  
Glaister, J, M D, D P H  
Glaister, J, Jr., M D, D Sc Lectr.

*Infancy and Childhood*  
Findlay, L., M.D, D.Sc.

Prof of Med. Pediatrics.  
Fleming, G. B, M B E, B.A., M.D.  
(Med. Diseases) Lectr.  
Graham, Stanley, M D. Tor. Asst.  
MacLennan, A, M B (Surgery  
and Orthopædics) Lectr.  
Macfarlane, W D, M B. Asst.

*Materia Medica*, v. also Med.  
Chn. [Reg. Prof.  
Stockman, R., M.D. Edin.

Campbell, David, M.A, B.Sc,  
M.D. Pollok Lectr.  
..... Weir Asst.  
Scott, W. H., M.B. Asst.

*Medicine* [Muirhead Prof.  
Hunter, W. K., M.D, D Sc.  
Cruickshank, J. N., M D. Asst.  
Mackay, W., M.B. Asst.

*Medicine, Clinical*

Henderson, J, M.D. Lectr.  
 Cowan, J. M., M.D., D.Sc. Lectr.  
 Middleton, J. C., M.A., B.Sc., M.B.  
 Waltonian Lectr. (also  
 Lectr in *Mat. Med.*)  
 Russell, D. W., M.B., C.M. Lectr

*Medicine, Practice of* [Reg Prof

Monro, T. K., M.A., M.D., C.M.  
 Adams, Douglas K., M.A., B.Sc.,  
 M.D. Asst.  
 M'Cluskie, J. A. W., M.B., Ch.B.  
 Asst.  
 Lendrum, R. G., M.A., M.B., Ch.B.  
 Asst

*Midwifery*

Kerr, J. M. Munro, M.D. Reg Prof  
 M'Intyre, D., M.D. Asst  
 Hewitt, J., M.B. Asst

*Obstetrics and Gynaecology*

Hendry, J., M.A., B.Sc., M.B.  
 Muirhead Prof  
 Cameron, S. J., M.B. (Chn) Lectr  
 Shannon, David, M.B. Lectr  
 Baird, D., M.B., D.P.H. Asst.  
 Hunter, A. M., M.B. Asst

*Pathology*

Muir, R., M.A., M.D. Edin.,  
 Sc.D., F.R.S. Prof  
 Blacklock, J. W. S., M.B. Lectr  
 Cappell, D. F., M.B. Asst.  
 M'Callum, G., M.B. Asst  
 Teacher, J. H., M.A., M.D.  
 St. Mungo-Notman Prof  
 Marshall, Alice J., M.B. Lectr.  
 Wingate, Helen F., M.B. Asst.

*Pathological Bio-Chemistry*

Telfer, Stephen V., B.Sc., M.B.  
 Lectr.  
 Cuthbertson, D. P., B.Sc., M.B.  
 Lectr.  
 Morris, N., B.Sc., M.D. Lectr

*Pediatrics, v. Infancy**Psychiatry (Mental Diseases)*

Henderson, D. K., M.D. Lectr.

MacDonald, J. H., M.B., Ch.B.  
 (Psych. Med.)

Mackintosh Lectr.

*Psychological M., v. Psychiatry**Public Health*

Curne, J. R., M.D., D.P.H. Birm.,  
 M.A. Edin. and Ox. Prof.  
 Laidlaw, S. I. A., B.Sc., M.B.

Asst.

Macleod, Catherine, M.B., D.P.H.  
 Asst

*Surgery*

[Reg Prof

Young, Archibald, B.Sc., M.B.  
 Hutton, A. J., M.B. Asst.  
 Robertson, J. G. M'Gregor, M.B.  
 Asst.

Riddell, W. J. B., M.B. Asst  
 Paterson, Peter, M.B., C.M.

St Mungo Prof

Burton, J. A. G., M.B., D.P.H.

St. Mungo Asst

Mowat, G. T., M.B. Asst.

*Surgery, Clinical*

Edington, G. H., M.D., D.Sc.  
 Lectr.  
 Patrick, J., M.A., M.B. Lectr.  
 Macewen, J. A. C., B.Sc., M.B.  
 Lectr.

Young, Roy F., M.B. Lectr.

M'Intyre, Milne, M.B. Lectr.

Renton, J. M., M.B. Lectr.

Duff, Donald, F.R.C.S. Ed. Lectr.

Taylor, J., F.R.C.S. Ed. Lectr.

*Tuberculosis, Clinical*

Crocket, J., M.D. Edin. Lectr  
 Wilson, J. A., M.B. Lectr.

*Venereal Diseases*

Watson, D., M.B., C.M. Lectr.

*University Extension*

Stevenson Lectr in Citizenship:  
 Burns, C. Delisle, M.A., D.Lit.  
 Joint Secy. for the Univ. to the  
 Glasgow Univ. Extra-mural  
 Education Committee:  
 Stewart, D., C.I.E.

ASSOCIATED COLLEGES, in which University courses are provided at Glasgow.

ROYAL TECHNICAL COLLEGE.

WEST OF SCOTLAND AGRICULTURAL COLLEGE.

## GENERAL INFORMATION

Founded by a Papal Bull in 1451, after the model of Bologna, the Univ. was reconstituted by a Charter of King James VI of Scotland in 1577. In 1864-70 the old college buildings and site were sold and new buildings were erected in a more suitable position on the crest of a hill (Gilmorehill) to the west of the city. Funds for this were obtained partly from the proceeds of the sale, partly from public subscription, and partly from a Parliamentary grant of £120,000. Queen Margaret College was acquired by gift in 1893 for the use of women students. The Carnegie Trust contributed £60,000 towards the cost of additional buildings which were completed in 1907, and a neighbouring estate was presented by the MacLellan family in 1917.

The LIBRARY, founded in the 15th century, contains 255,000 vols, including 300 books printed before A.D. 1500. Among its important collections are the Ewing, distinguished for the value and variety of its Bibles; the Hamilton, rich in philosophical works; and the Ferguson, containing rare books on the history of chemistry. The Hunterian MUSEUM, founded in 1783, contains most valuable MSS. and early printed books and pictures and important collections of coins, anatomical preparations, zoological and mineral specimens, etc. Large new departments with spacious LABORATORIES have been erected for Engin., Bot., Nat. Philos., Chem., Physiol., Anat., Path., Mat. Med., Forensic Med., Pub. Health, and Zoology. There are BOTANICAL GARDENS and an OBSERVATORY. As Glasgow stands at the centre of the shipbuilding, engineering, mining, and industrial area of Scotland, it offers unique opportunities for technical training. Three large general HOSPLS. are available for clinics, besides special institutions (including Consumption Sanatoria).

FACULTIES. (1) Arts, (2) Science, (3) Medicine, (4) Law, (5) Divinity, (6) Engineering. Depts. of Applied Science—Engineering (Civ., Elec., Mech. Mining, Naval Archit., Chem.), Applied Chem., Agric., Architecture, Public Health, Pharmacy. Deans: (1) Profs. Bowman (Mor. Phil.), (2) Drummond (Bot.), (3) Currie (Public Health), (4) Glaister (Forensic Med.), (5) Main (Eccl. Hist.), (6) Cormack (Civ. Eng. and Mech.).

DEGREES. Applications by Overseas students for remission of part of the class attendance for B.Sc. in branches other than Engineering will be considered sympathetically. *Diploma* in Education, 1 yr. course, for graduates (the first yr. of the Ed.B. course); D.P.H. (1 yr. course) for legally qualified med. practitioners. *Certificates* of Proficiency in Engineering Science and in Mining Engin., 3 yrs.' courses, of which first yr. may be taken in Roy. Tech. Coll.; no prelm. examn.

*M.A. with special reference to Citizenship.* The curriculum recommended for this is—1st yr., English and another language; 2nd yr., a Science and History; 3rd yr., Ethics, Individual and Social Life, and Political Economy.

The list of extra-academical teachers whose courses in certain subjects are recognized as qualifying *pro tanto* for graduation includes several resident outside the United Kingdom, namely in Cape Town (in Nat. Philos., Chem., Bot., Zool.), Grahamstown (Physics, Chem., Bot., Zool.), Johannesburg (Zool. and Chem.), and Stellenbosch (Bot., Chem., Physics).

For detailed information regarding POST-GRADUATION study and research in any Faculty application should be made to the Dean; v. also p. 274. A Post-graduate *Medical Assocn.* organizes demonstrations for Med. Practitioners; fee for series, Nov. to May, 3 gs.; programme obtainable from the Secy., P.-G. Med. Assocn., Dr. James Carslaw, 9 Woodside Terrace, Glasgow, C.3.

CLASS FEES (v. Carnegie Trust) M.A. (Hons), 60 gs.; LL.B., 40 gs.; B.L., 30 gs.; M.B., Ch.B., about £250 for 5 yrs. Combined M.A. and B.Sc., 112½ gs.

SCHOLARSHIPS FOR GRADUATES: about 76 of from £30 to £280 p.a., most of them open only to graduates of Glas. (For undergraduates there are 480, varying in value from £10 to £50 or more p.a., chiefly in the Faculty of Arts, in addition to Bursaries of from £5 to £25, awarded by the Provincial Committee for the training of teachers) V. also p. 274

*Travelling* for study or research is encouraged by: Bryce Mathematical Fellowship (£280 p.a. for 4 yrs.), Faulds Fellowship (£200), J. R. K. Law Scholarship (£100 p.a. for 2 yrs.) for Applied Science tenable at an approved *Overseas University* or other scientific institution in *Canada*, *U.S.A.*, or *France*.

RESIDENCE. Two Halls of Residence for men—the MacLay Hall and the MacBrayne Hall, and two for women—Queen Margaret Hall and the Robertson Hall. Lodgings or board with private families with use of 2 rooms, generally obtainable in neighbourhood of the Univ., for from 35s. to 50s. per week. A few students' hostels or settlements, of limited accommodation, where the charges are lower, are run by private committees or bodies of students and graduates.

A STUDENT WELFARE COMMITTEE has been formed for the purpose of raising funds for the provision of Hostels, increased Union accommodation, and the completion of the Athletic Ground. Grants have been received from the Univ. Grants Committee and the Carnegie Trust, and many donations have been received from private benefactors and other sources. In all the sum of about £85,000 has been raised.

UNIVERSITY EXTENSION. An Extra-mural Education Committee, equally representative of the Univ. and working-class organizations, is prepared to supply classes, short courses, and single lectures to groups of students in Glasgow and the West of Scotland, so far as its resources will permit, a compendium of classes and lectures for the session is obtainable from the Organizing Secretary, W.E.A., 177 Hill Street, Garnethill, Glasgow, C.3. Fortnightly and occasional free public lectures by professors and others are delivered during the winter session.

PUBLICATIONS. *Calendar* (July); *Glasgow Univ. Magazine*, weekly during winter session; *Examn. Papers*, Prelim. and Degree, 6d. per set; *Annual Handbook* for matriculated students, *Handbook* for Overseas students and graduates; *History of the University of Glasgow* (Coutts); *Roll of Graduates* (1726-1896) (Addison); *Matriculation Albums* (Addison)

## THE YEAR 1927-28

BENEFACTIONS. Dr. W. E. Lee, £100 for prize in Church History; Mr. George A. Mitchell, £600 further endowment for Lectures in Statistics; G.U. Club, London, £100 for the Chancellor's stall in the War Memorial Chapel; Mr. William C. Teacher, £10,000 for a Lectureship in Bacteriology at the Royal Infirmary; Mr. W. G. Gardiner and Sir F. C. Gardiner, K.B.E., endowment for a Lectureship on the Pathology of Diseases of Infancy and Childhood at the Royal Hospital for Sick Children; Dr. George S. Middleton, one-sixth of the

residue of his estate; The Singer Manufac. Co., Ltd., a bursary of £25 per annum; Mr. J. J. F.-X. King, his valuable collection of insects (about half a million specimens); the Committee formed for the purpose of recognizing Em.-Prof Gibson's services to the Univ. and Royal Technical Coll.; £300 for the periodic delivery of lectures on the History of Mathematics

**HONORARY DEGREES.** *D.D.*—H. R. L. Sheppard; R. S. Calderwood, D. Cameron; G. Macaulay; N. Macnicol, C. N. Moody, A. B. Scott; F. T. Woods, Bishop of Winchester. *LL.D.*—H. J. W. Hetherington; Em.-Prof. W. S. M'Kechnie; A. M. Bannatyne; W. Brodie; E. Cammaerts; G. W. Crile; Em.-Prof. G. A. Gibson, Principal W. R. Halliday; The Rt. Hon. the Earl of Home; C. Ker; Sir David Murray; Prof. R. A. Sampson

**DEATHS.** Dr. George S. Middleton, Member of University Court; Dr. David Murray, Member of University Court; Em.-Prof. H. M. B. Reid; Prof. D. Noël Paton; Rev. Dr. T. H. Weir, Lectr. in Arabic; Dr. W. S. Syme, Lectr. in Diseases of the Ear, Throat, and Nose; Dr. J. Wylie Nicol, Lectr. in Diseases of the Skin

**RESIGNATIONS** Prof. D. Noel Paton, Regius Prof. of Physiology; Dr. R. Christie Smith, Carnegie Teaching Fellow in Physical Chemistry, M. Marius J. J. Corder, Lectr. in French, to be Prof. in the Lycée Rollin, Paris; Dr. Claude W. Wardlaw, Lectr. in Botany; Dr. Albert A. Gray, Lectr. in Diseases of the Ear; Mr. J. R. Learmonth, Asst. in Surgery; Dr. James Sword, Asst. in Chemistry.

**STUDENTS.** Full-time · total, 4894, including 299 graduates. Part-time: total, 400, including 92 graduates.

**DEGREES** M.A., 586, B.Sc., 216, M.B., Ch.B., 156; B.L., 16; LL.B., 19; Ed.B., 3; B.D., 8; Ph.D., 12, D.Litt., 1; M.D., 18; Ch.M., 1; D.Sc., 5.

## THE ROYAL TECHNICAL COLLEGE, GLASGOW

[Affiliated to the University of Glasgow]

*Chairman of the Board of Governors*—JAMES MACKENZIE, LL.D.

*Director*—H. F. STOCKDALE, LL.D.

*Tutor and Librarian*—W. G. BURRELL, M.A.

### PROFESSORS, LECTURERS, ETC.

<i>Architecture and Building</i>		Revel, J. D., A.R.C.A., R.P.S.
Hughes, T. H., F.R.I.B.A., F.S.I., A.R.C.A.	Prof. and Dir. of Arch. Studies.	Hon. Lectr. (Interior Decoration).
<i>Botany and Bacteriology</i>		
Brown, T., A.I.Struct.E	Lectr.	Ellis, D., D.Sc. Lond, Ph D. Marb. Prof. (Bact.) & Lect.
Smith, Wm. J., A.R.I.B.A.	„	(Bot.).

Lloyd, Miss B., M.Sc. Wales

Asst. Lectr.

Leitch, J. M., B.Sc.

Demr.

*Chemistry, Technical*

Gray, T., D.Sc., LL.D., Ph.D.  
Jena

Young Prof. and Dir of  
the Sch. of Chem.

Cruickshanks, G. S., Ph.D. Leip.

Lectr.

Buchanan, Walter J., A.R.T.C.

Demr

Heriot, T. H. P., F.I.C.

Lectr. (Sugar Manuf.).

*Chem., Inorg and Analyt.*

Caven, R. M., D.Sc. Lond Prof

Sutherland, Maggie M. J., D.Sc.

Lectr

Cranston, J. A., D.Sc., A.I.C.

(Physical Chem) Lectr.

Duncan, J. G., F.I.C., A.R.T.C.

Lectr.

Gordon, P. F., Ph.D., F.I.C. Lectr.

Demis :

Crawford, A. B., Ph.D., B.Sc.,  
A.R.T.C., A.I.C.

Anderson, H. G. A., B.Sc.

M'Intyre, R., B.Sc.

Biggar, D. G., A.R.T.C.

Stratton, Jean M., B.Sc.

*Chemistry, Organic*

Wilson, F. J., D.Sc. Edin., Ph.D.  
Leip. Prof.

Cumming, W. M., D.Sc. Lectr.

Hopper, I. V., Ph.D., B.Sc. Lond.,  
A.R.C.S.I. Lectr.

*Dyeing, Bleaching, etc.*

Steven, A. B., B.Sc. Lond Lectr

*Engineering, Civil*

Moncur, G., B.Sc. Edin.,  
M.Amer.S.C.E. Prof.

Hunter, W., B.Sc. Lond,  
A.R.T.C. Lectr.

Thomson, G., M.A. Edin. (San  
Eng.) Lectr.

*Engineering, Electrical*

Smith, S. Parker, D.Sc. Durh.

A.M.I.C.E. Prof.

Meade, F. E., M.I.E.E. Lectr.

Asst Lectrs. and Demrs. :

Farrell, J. F. E., B.Sc.

Shearer, G., B.Sc.

Say, M. G., Ph.D., M.Sc. Lond

MacElwee, N. M., B.Sc., A.R.T.C.

Cowan, J. A., A.R.T.C.

Lawson, R., Dipl. R.T.C.

*Engineering, Mechanical*

Mellanby, A. L., D.Sc. Durh.,  
M.Sc. McG. Prof.

Kerr, Wm., Ph.D., A.R.T.C.

Assoc Prof.

Sinclair, J. H., M.Sc. Vict., B.Eng.

Liv

Smith, J., B.Sc. Lectr.

Caldwell, P. S., A.R.T.C. Lectr

Ramsay, J., B.Sc. Lond. Lectr

Sneeden, O., B.Sc. Lectr.

Ferguson, W., B.Sc., A.M.I. Mech.  
E. Lond. Lectr.

Asst. Lectrs. and Demrs. :

Milnes, W. A., B.Sc.,  
A.M.I. Mech. E.

Garrick, J. A., B.Sc.

Russell, R., B.Sc.

Scott, Alex. W., B.Sc., A.R.T.C.

M'Broom, H. L., B.Sc., A.R.T.C.

Russell, R., A.M.I. Mech. E.

Shannon, J. F., A.R.T.C.

*Engineering, Mining*

Burns, D., M.I. Min. E. Prof.

Stevenson, J., B.Sc. Lectr.

Miller, Wm., B.Sc. Asst Lectr.

Hibberd, G., A.R.T.C. Demr.

*Geology, Economic*

Edwards, E. J., M.Sc. Manc. and  
Leeds Lectr.

*Mathematics*

Miller, J., M.A., D.Sc. Prof.

Paul, J., M.A., B.Sc. Lectr.

Geddes, S., M.A., B.Sc. Lectr.



<i>Metallurgy</i>		Macaulay, J. M., B.Sc., Ph.D., A.R.T.C.
Andrew, J. H., D.Sc. Manc. Prof.		Strachan, J. G., M.A.
Higgins, R., Ph.D., B.Sc., A.R.T.C.	Lectr.	
Macdougall, A. J.	Demr.	<i>Naval Architecture</i>
<i>Metallurgical Chemistry</i> [Lectr		Gray, W. M., B.Sc. Lectr.
Hay, R., Ph.D., B.Sc., A.I.C.		<i>Pharmacy and Pharmacog.</i>
<i>Natural Philosophy</i>		Todd, J. P., Ph.C. Lectr
Muir, J., D.Sc., M.A. Camb.		Schorn, E. J., A.I.C., Ph.C. Demr.
	Freeland Prof	Murphy, P. L., M.P.S. Demr
M'Quistan, D. B., M.A., B.Sc.		Arthur, E. Demr.
	Assoc. Prof.	<i>Sugar Manufacture</i> , v. Chem
Rankin, J. S., B.Sc., A.R.T.C.		<i>Textile Manufacture</i>
	Lectr.	Watson, W. Lectr.
Asst. Lectrs and Demrs :		2 Asst. Lectrs.
Symon, F. J., B.Sc.		

## GENERAL INFORMATION

Anderson's College, founded in 1796, the College of Science and Arts (1823, the first "Mechanics' Institution"), and the Atkinson Institution (1861) were amalgamated in 1886 under the title of the Glasgow and West of Scotland Technical College, which was changed in Feb 1912 to the Royal Technical College. The College was affiliated to the Univ. of Glasgow in March 1913.

The College building, comprising over 7 acres of floor space, cost, with equipment, £400,000. Qualifying courses are provided in the subjects named above for Degrees of the Univ. in Applied Science and for the Diploma of the College. Courses in the following qualify for the Diploma only: Building, Naval Architecture, Textile Manufacture. There are also Departments of Navigation and Bakery, as well as numerous evening classes in other subjects, mainly technological. The courses for the Diploma cover 3 (in Chem. and Metall., 4) yrs.; for the Associateship in any of the Diploma subjects, attendance during 4 yrs. is required. The evening lecturers are not included in the above lists; some of their work is, however, of university and even post-graduate standard. Much research work, for the prosecution of which a development fund of over £70,000 has been raised, is carried on at the College. The library includes the Euing musical collection and the James Young collection of early alchemical, metallurgical, and chemical books.

The Glasgow School of Architecture is maintained by the College and the Glasgow School of Art working in co-operation through a Joint Committee under whose authority its Diplomas (5 yrs.' course) are issued.

The College has an athletic ground, and within the College buildings a well-equipped gymnasium.

FEES for tuition: diploma, 25 gs p.a.; degree, 90 gs. for course.

PUBLICATIONS. *Calendar*; *Annual Report*; *Research Journal*; *Metallurgical Club Journal*.

## THE YEAR 1927-28

BENEFACTIONS. The Bellahouston Trustees have renewed for a further period of three years their annual grant of £1000. In 1905 Mr. James Donald made a bequest to the College, subject to a life-rent which has now fallen in.

The income from £13,000 will now become available to provide "a sound education in Practical Chemistry and also in Practical Mechanics." Dr. G. S. Middleton bequeathed to the College one-sixth of the residue of his estate. An anonymous donor, £4000 for the maintenance of a Research Schol'p Mr. C. C. Lindsay, bequest of £3000 for a Schol'p in Mechanical Engineering. Mr. Robert Barr, £5000.

RESIGNATIONS. D. McKerracher, appointed Head of the Physics Department, Huddersfield Technical Coll ; W. H. Millar, appointed Asst. Lectr. in Pharmacy, Birmingham Central Technical Coll.

RESEARCH JOURNAL. The fourth number was issued, containing thirteen papers in Natural Philosophy, Chemistry, Metallurgy, Mechanical Engineering, Electrical Engineering, and Mining Engineering.

UNIVERSITY EXTENSION. 2247 part-time students of 21 years of age or over were in organized classes. 483 tickets were issued for the courses in Astronomy.

STUDENTS Full-time preparing for a first Degree or Diploma (excluding 43 attending major portion of time at Glasgow University), 340 ; undertaking advanced work, 24. Part-time . preparing for a first Degree or Diploma, 530 ; undertaking advanced work, 25 ; occasional students, 1867 ; taking courses not of a University standard, 1340

DEGREES OBTAINED. Ph.D , 4 , B.Sc. in Applied Science, 39 ; B.Sc. Lond , 5.

# UNIVERSITY OF ST. ANDREWS

CHANCELLOR AND PRESIDENT OF THE GENERAL COUNCIL—.....

VICE-CHANCELLOR AND PRINCIPAL OF THE UNIVERSITY AND OF THE UNITED COLLEGE—Sir JAMES COLQUHOUN IRVINE, C B.E., Ph D., D Sc, LL D. Glas., Sc.D, F.R S

RECTOR AND PRESIDENT OF THE UNIVERSITY COURT—Sir WILFRED GRENFELL, C.M G, M D Ox.

DEANS OF FACULTIES. See under "General Information"—Faculties.

SECRETARY AND REGISTRAR—ANDREW BENNETT

LIBRARIAN—GEORGE H BUSHNELL.

PRINCIPAL OF ST. MARY'S COLLEGE—Very Rev. G GALLOWAY, M.A., D.Phil., D.D.

PRINCIPAL OF UNIVERSITY COLLEGE, DUNDEE—J. Y. MACKAY, M.D., LL D

ADVISERS OF STUDENTS AT ST. ANDREWS: IN ARTS—Prof WEBSTER ; IN SCIENCE—Prof HERRING ; IN MEDICINE—Prof WATERSTON.

AT DUNDEE: IN ARTS AND SCIENCE—Prof STEGGALL ; IN MEDICINE—Prof CHARTERIS.

## UNIVERSITY COURT

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JAMES YOUNGER, LL D.

WILLIAM LOW, O B E., LL D

A MACGILLIVRAY, C.M., M D, D Sc

J M DAWSON, M A

G. LAWSON, M.A.

E. E. MORRISON, M A., LL D.

Prof WEBSTER.

Prof. HERRING.

Prof. FULTON.

SECY.—ANDREW BENNETT.

## PROFESSORS, LECTURERS, ETC.

*Anatomy*

Waterston, D, M A, M.D, C M. Edin. Bute Prof.

Dow, D R, M B., Ch B, M D, D.P.H.

Kirkpatrick, H. J. Rodway, M.B., Ch.B., D P.H.

Lectr. & Asst. (Regional A.).

Taylor, John, M D., Ch M.

Lectr. (Regional A.) & Asst.\*

Prof.\* Skae, F. M. T., M.D., C.M. Asst.\*

\* At Dundee.

*Archæology, v. History**Biology, v. Nat. Hist.**Botany*

..... Prof.\*  
 Robertson, R. A., M.A., B.Sc. Reader  
 Smith, Edith P., B.A., Ph.D. Lectr.\*  
 Edin Lectr.\*  
 Kean, C. Isobel, B.Sc. Asst

*Chemistry*

Read, J., M.A. Camb, B.Sc. Lond.,  
 Ph.D. Zur. (Dir of Chem. Res.  
 Lab.) Prof.  
 Steele, Ettie S., M.A., B.Sc., Ph.D.  
 Lectr & Asst.  
 M'Kenzie, Alex., M.A., D.Sc.,  
 Ph.D. Berl., F.R.S. Prof.\*  
 Ross, J. D. McB., M.B.E., M.A.,  
 D.Sc. Edin Lectr. & Asst.\*  
 Robertson, G. J., M.A., B.Sc.,  
 Ph.D. Lectr  
 Macdonald, J. Y., B.A. Lectr.  
 Roger, R., B.Sc., Ph.D. Lectr.\*  
 Smith, Isobel A., M.A., B.Sc.,  
 Ph.D. Asst.\*  
 Storey, R. A., B.Sc. Asst

*Classics*

[Prof  
 Rose, H. J., M.A. Ox (Greek)  
 Lorimer, W. L., M.A. (Greek)  
 Lectr & Asst.  
 Dall, Mrs. A., M.A., Ph.D. Asst.  
 Lindsay, W. M., M.A. Ox, LL.D.,  
 Litt.D., Ph.D., F.B.A. (Hu-  
 manity) Prof.  
 Craig, J. D., M.A. (Latin)  
 Lectr. & Asst  
 Mills, T. R., M.A. (Latin) Reader.\*

*Divinity*

Galloway, G., M.A., D.Phil., D.D.  
 Edin. Primarius Prof.  
 Duncan, G. S., O.B.E., M.A., B.D.,  
 B.A. (Bibl. Crit.) Prof.  
 Baxter, J. H., M.A., B.D. (Ch  
 Hist.) Prof.  
 The Right Rev Bishop Charles  
 Gore Gifford Lectr

*Education*

[Bell Prof.  
 M'Clelland, W. W., M.A., B.Sc.,  
 B.Ed (Dir. of Studies at the  
 Provincial Training College)  
 Snodgrass, Neil S., M.A. (Adminis-  
 tration of Schools, etc)

Lectr

*Engineering, Civ. and Mech.,  
and Drawing*

Fulton, A. R., D.Sc. Prof.\*  
 Hay, J. M., B.Sc. Lectr.\*  
 Steel, G. S., B.Sc. Lectr.\*  
 Cassie, W. F., B.Sc. Asst.\*

*Engineering, Electrical*

Mackay, W. Morton, B.Sc. Lectr.\*

*English Lang. and Lit.*

Webster, A. Blyth, M.A.  
 Berry Prof. of E. Lit.  
 Peterson, W. G., M.A.  
 Lectr. & Asst  
 Soutar, G., M.A., D.Litt

Reader.\*

Graham, Margaret, M.A. Glas  
 Asst.\*

*French Lang and Lit and Rom.  
Philol*

Lewis, C. B., B.A., L. ès L., Ph.D.  
 Lectr †  
 Chamalau, A., L.-ès-L. Asst †

*Geology †*

Innes, D. E. I., M.A. Reader.  
 Walker, F., B.A., Ph.D. Asst  
 Welch, F., B.A., Ph.D. Asst.  
 Scott, James F., Ph.D. Glas. Asst

*German and Teut. Philol*

Smith, Muriel, M.A. Lectr  
 Hayens, K., M.A., D.Litt. Lectr.\*

*Hebrew and Oriental Langs.*

Kay, D. M., D.S.O., D.D. Edin.,  
 M.A., B.Sc. Prof.  
 ..... Asst.

*History, Mediæval*

Baxter, J. H., M.A., B.D. Lectr.

*History, Modern*

[Reader.  
 Williams, J. W., M.A., B.Litt. Ox.

\* At Dundee.

† At St. Andrews and Dundee.

- Burn, W. L., B.A. Asst.  
 Sellon, H. G. R., B.A. Ox. Asst.  
*Law, Scots* [Lectr \*  
 Allison, J., C.B.E., M.A., LL.B.  
*Law, Conveyancing*  
 Carlton, H. J., M.A., LL.B. Lectr \*  
*Logic and Metaphysics*  
 Stout, G. F., M.A. Camb., LL.D., F.B.A. Prof  
*Logic and Psychology*  
 Wright, J. N. Lectr. \*  
 Mace, C. A. Lectr & Asst.  
 Knight, Arthur R., M.A. Lectr.  
*Mathematics and Applied Maths*  
 Turnbull, H. W., M.A. Reg Prof  
 Steggall, J. E. A., M.A. Camb Prof. \*  
 Saddler, W., B.A. Camb., M.A. Lectr & Asst  
 Butchart, R. K., B.Sc., Ph.D. Lectr & Asst \*  
 Simpson, Mary C., M.A. Asst \*  
 Timms, Geoffrey, Ph.D. Asst  
*Medicine and Surgery, v. infra*  
*Musie*  
 Sawyer, F., Mus.Bac. Lectr.  
*Natural History*  
 Thompson, D'A. W., C.B., M.A., D.Litt., F.R.S. Prof.  
 Peacock, A. D., M.Sc., D.Sc. Durh. Prof \*  
 Sutherland, Christina, B.Sc. Asst.  
 Gresson, R. A. R., B.Sc. Asst. \*  
*Philosophy, Moral, v. also Logic*  
 Morrison, D., M.A. Prof.  
 ..... Asst.  
*Philosophy, Natural*  
 Allen, H. Stanley, M.A., D.Sc. (Dir. of Physics Res. Lab.) Prof  
 Bagot, J. C. Lectr. & Asst  
 Robson, W. G., A.R.C.S., B.Sc. Lectr  
 Jack, D., M.A., B.Sc. Asst.  
 Forrest, J., M.A., B.Sc., D.Sc. Lectr. & Asst \*  
 Smith, Winifred J., B.Sc. Asst \*  
 Smart, Raymond, M.A. Asst \*  
*Physics* [Harris Prof. \*  
 Peddie, W., D.Sc. Edin.  
*Physiology* [Chandos Prof.  
 Herring, P. T., M.D. Edin.  
 Hynd, Alex., M.A., D.Sc. Lectr. & Asst.  
 Weston, F. Asst.  
 Reid, E. W., B.A., M.B., Sc.D. Camb., F.R.S. Prof \*  
 Stiven, D., B.Sc., Ph.D., D.Sc. Asst. \*  
*Political Economy* Lectr  
 .....  
*Psychology, v. Logic*  
*Pub. Health, v. Med.—Fever*  
*Theology, v. Divinity*  
*Zoology, v. Nat. Hist*  
 Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)  
*Anæsthetics*  
 Mills, Arthur, M.D. Lectr \*  
 3 Instrs  
*Bacteriology*  
 Tulloch, W. J., O.B.E., M.D., D.P.H. Prof \*  
 Craigie, J., M.B., Ch.B. Research Asst \*  
*Diseases of Children*  
 Rogers, J. S. Y., M.B., C.M. Lectr \*  
 Price, Prof. Ll. T. Lectr. \*  
*Diseases, Mental*  
 Mackenzie, W. T., M.D. Lectr \*  
*Diseases, Throat, Nose, and Ear*  
 Mathers, R. P., M.D. Lectr \*  
 Gibson, M. J., M.B., Ch.B., F.R.C.S.E. Clin. Tutor. \*  
*Diseases, Skin*  
 Milne, F. M., M.A., B.Sc., M.B., Ch.B. Lectr. \*  
*Fever and Pub Health*  
 Burgess, W. L., M.B., Ch.B., M.D., D.P.H., D.T.M. and H. Lectr. \*

Petrie, J., M B., Ch.B.

Asst.\* (Fevers).

Dickson, Margaret S, M B., Ch B.

Asst \* (Public Health).

### *Forensic Medicine*

Lennox, D, M D.

Lectr.\*

### *Materia Medica*

Charteris, F. J, M.D. Glas Prof \*

Buchanan, W. E. A, M B, Ch B

Asst \*

### *Medicine*

Patrick, Adam, M D. Glas. Prof \*

Morgan, J. M'I, M.B., Ch B

Asst.\*

### *Medicine, Clinical \**

Lectrs .

Profs Charteris and Patrick.

Foggie, W E, D S O, M A, M D

Kerr, C, O B E, M B, C M

### *Midwifery*

M'Gibbon, John, M B, Ch B

Edin. Prof \*

Farlie, Margaret, M B, Ch.B

Asst \*

### *Ophthalmology*

M'Gillivray, A, C.M, M D Aberd,

D Sc. Reader \*

M'Gillivray, Allister M, M B,

Ch B. Clin Tutor & Asst \*

### *Pathology*

Sutherland, L. R., M B., C M.

Glas.

Prof.\*

Tudhope, G R, M B, Ch B,

D.P H, Ph D.

Asst & Lectr \*

### *Pathology, Clinical*

Milne, F. M, M A, B Sc, M B,

Ch B

Lectr \*

### *Radiology and Elec Therap.*

Pirie, G. A, M A, M D Instr.\*

Milln, G. H S, M B., Ch B Instr.\*

### *Surgery*

Price, Ll T, M B, C M Prof \*

### *Surgery, Clinical*

Anderson, J, M B, Ch B,

F R C S Edin Lectr \*

Alexander, R. C, M A, M B,

F R C S Edin Lectr \*

Taylor, John, M D, Ch M Tutor \*

Brown, F R, M B, Ch B,

F R C S Edin Tutor.\*

### *Tuberculosis*

Hunter, J H, M B, Ch B, D P H.

[Instr \*

### *Venereal Diseases*

Averill, C, M B, Ch.B. Instr \*

Fulton, Annie, M B, Ch B Instr \*

\* At Dundee.

## GENERAL INFORMATION

The University was founded in 1411. In 1747 St. Salvator's (1450) and St. Leonard's (1512) Colleges were united under the name "United College of St. Salvator and St. Leonard." St. Mary's College (1537) has, since 1579, been restricted to the teaching of Theology. University College, Dundee (1880), was affiliated to and made to form part of the University in 1897.

**LIBRARY.** 250,000 printed vols (some of 15th and 16th centuries). MSS include fine Persian specimens and large folio Antiphonarium. College Library at Dundee. **MUSEUMS** at St. Andrews—Anat., Anthropol., Ethnol., Geol., Mineral, Nat. Hist.; at Dundee—Geol., Med., Nat. Hist. **LABORATORIES** at St. Andrews—in all above depts. except Med., also Chem. (with special Research lab), Marine, Physics, Physiol., Bot. Garden. At Dundee—Anat., Bact., Chem., Embryol., Engin (Elec., Hydraulic, Mech), Mat Med., Maths., Nat Hist, Physics, Physiol

**FACULTIES.** Divinity, Arts, Science, Medicine. Deans: Principal Galloway, Prof Blyth Webster (English), Prof. Herring (Physiology), Prof. Charteris (Materia Med.).

**DEGREES, ETC.** Courses for graduation in Arts and Science are given both in the United Coll., St. And., and in Univ. Coll., Dundee, some being given in both places, some—Greek, Hebrew, Hist., Moral Philos., Pol. Econ.—only in St. And., some—Engineering—only in Dundee; Medical, after the first two yrs., and Dental solely, in Dundee, where facilities for clinical instruction are available. Here also are provided courses in Scots Law and Conveyancing. Associated with the Univ. is the Dundee School of Social Study and Training.

The M A. Course includes a General and a Special examn. The former, which must be completed before proceeding to the Special, embraces at least 5 subjects, of which Latin or Greek must be one, another must be either Maths or Philos., at least two must be Linguistic, and at least one Scientific. *Foreign students* may take Arabic or Hebrew in lieu of Latin or Greek. In the Special examn. two cognate subjects must be taken, the whole examn. being passed at one time.

The B Sc. Ordinary degree in Pure Science involves a 3 yrs.' course, embracing at least 4 subjects with a 1st examn. (4 subjects) and a 2nd (2 subjects); the Honours degree involves a 4 yrs.' course (the last year being devoted exclusively to advanced study in the Hons. subject) with 2 examns.—a 1st in 4 subjects and an Honours in one.

**Diplomas:** Education, for graduates who complete the first year of the Ed B course, D.P.H., 12 months, L D S., 4 yrs.; L L A. (for women), attendance on courses not required, standard about the same as that of the ordinary M.A.; Social Study, 2 yrs. after obtaining M.A. or B Sc. **Certificate** in Social Study for non-graduates over 21 with good general educn., 2 yrs.

**FEES for Tuition.** M.A., £47. 5s., Hons M A., £63, B.Sc., £80, B.Sc. (Engineering), 90 gs.; B.Sc. Hons, 90 gs.; M B, Ch B, £182. Combined Courses: M.A. and B Sc., 112½ gs., M A and M B, Ch.B., £208; M A., B.Sc. and M B, Ch.B., £236, B Sc and M B, Ch B, £220. The above do not include fees for hospi. ticket or cases of labour, or laboratory fees for use of apparatus, etc. Maximum fee for Research students, 5 gs. a term. Degree fees for M.D or Ch M., 20 gs.; D.Litt. or D.Sc., 15 gs.; Ph.D., L.D.S., or D.P.H., 10 gs.; B Phil. or B.Litt., 6 gs. Dipl. or Certif in Social Study, 4 gs. Dipl. in Educ., £4 14 6.

**RESIDENCE.** University Hall for Women (Warden) at St. Andrews, £66 and upwards p.a., exclusive of tuition fees. Hostel for women students, Dundee (Warden), £62:10s. p.a. Chattran House for men (Warden) at St. Andrews, £56 p.a. and upwards, exclusive of tuition fees.

**SCHOLARSHIPS FOR GRADUATES** 14, annual value about £1711, v also p 274 Scholarships tenable in other countries. Guthrie (£135 p.a. for 4 yrs.), tenable at Oxford or Cambridge or (with special permission) at a foreign Univ.; Ramsay (£150 p.a. for 2 yrs.), Bruce (£150 p.a. for 2 yrs.), and Berry (£160 p.a. for 2 yrs.) may, with permission of United College, be tenable in another Univ. or Institution.

AN ALUMNUS ASSOCIATION was founded in 1926.

**PUBLICATIONS.** *Calendar* (Sept.), 3s. 6d.; U. Coll., Dundee, *Calendar*, 6d.; Students' Repve. Council's *College Echoes* (St. And.) and *The College* (Dundee).

## THE YEAR 1927-28

**BENEFACTIONS.** Tullis, Russell & Co, a Russell Residential Entrance Schol'p of £100 p.a., tenable for 4 yrs., an anonymous donor, £2000 for a Patrick Hamilton Residential Entrance Schol'p, tenable for 4 yrs.; an any-

mous donor, £300 for a David Marshall Prize in the Dept. of Humanity; an anonymous donor, £300 for a James Forrester Prize for Greek; Students' Welfare Committee, £2300 for Students' Welfare; Dr. G. Forbes, the Library of his father, the late J. D. Forbes.

**NEW BUILDINGS.** Erection of Graduation Hall continued; building of St. Salvator's Residence Hall (men students) begun; Catalogue Room and Service Room, University Library buildings; further equipment of Psychological Laboratory, extension of Students' Union and Coll. Library at Univ. Coll., Dundee, begun.

**NEW POSTS.** Additional Lect'ship in Philosophy; Lect'ships in Conveyancing (Law), and in Administration and Organization of Schools.

**CHANGES IN REGULATIONS, ETC** Ordinances passed (*a*) instituting a Univ. Chair in Botany in place of existing Lectureships and Chair at St. Andrews and Dundee, (*b*) altering the Regulations for the Degrees of B.Sc. and D.Sc. in Engineering (including provision for the Degree of B.Sc. in Engin. with Honours); (*c*) amending the Regulations for the Degree of B.Litt. so as to include Hebrew as a subject

**NEW DEVELOPMENTS.** Provision made for Lectures in Education, in Psychology, and in Administration and Organization of Schools qualifying for the Diploma in Education of the Univ., Regents appointed to advise and guide Univ. scholars and other students, further development of scheme for organizing adult education, courses for railway employees continued; course in Forensic Medicine for police constables instituted, institution of Boards of Studies in Education and in Law

**RELATIONS WITH OTHER INSTITUTIONS** Lectures in various parts of America and in this country by Principal Sir James Irvine and by other members of the Teaching Staff.

**DEATHS.** Field-Marshal the Rt. Hon. Earl Haig of Bemerseyde, Chancellor of the University, The Rt. Hon. the Viscount Haldane of Cloan, Chancellor of the University, Emer. Prof. J. Burnet, formerly Prof. of Greek.

**RESIGNATIONS** Prof. J. A. C. Kynoch, Prof. of Midwifery; C. Morrison, Lectr. in Econ., F. C. Roe, Lectr. in French, appointed Prof. of French, Univ. Coll. Hull, R. K. Butchart, Lectr. in Maths., Dundee, appointed Prof. of Maths., Raffles Coll., Singapore; Mrs. Ada Williamson, Asst., Natural Philosophy, Dundee, G. A. Cumming, Ph.D., Asst., Geology, appointed to Commonwealth Fund Fellowship; J. Williamson, Asst., Maths., St. Andrews, appointed Assoc. Prof. of Maths., Johns Hopkins Univ.; W. E. A. Buchanan, Asst., Materia Medica; D. Scott, M.B., Ch.B., Lectr. in Vaccination.

**HONORARY DEGREES.** *D.D.*—Rev. N. M. Cate, Rev. Prof. J. E. Davey, Rev. D. Macfarlane, Rev. Canon O. C. Quick, Rev. D. Reid. *LL.D.*—Prof. J. Burnet, Sir Richard Gregory, Dr. K. Rasmussen, B. Thomson, Prof. E. P. Cathcart, Prof. W. Darrach, R. Fleming, Sir Henry S. Keith, Dame Ethel M. Smyth.

**STUDENTS.** Full-time: total, 617; research, 29; higher degree (B.Litt.), 1; preparing for a first degree, 573; diploma students, 14. Part-time: total, 116; research, 28; diploma, 3; occasional, 85. Extra-mural classes: History, 44; Industrial Psychology, 37; Geology, 8; English, 24; Railway Law, 49.

**DEGREES.** M.A., 95; B.Sc., 44; B.D., 2; Ph.D., 10; D.Sc., 3; M.D., 3; M.B., Ch.B., 15; D.P.H., 2; L.D.S., 7.



# THE QUEEN'S UNIVERSITY OF BELFAST

VISITOR—H M. THE KING

CHANCELLOR—The Most Honourable THE MARQUESS OF LONDONDERRY, K G., P.C, M.V.O, LL.D.

PRO-CHANCELLORS—Rt. Hon. HUGH O'NEILL, M.P., LL.D., Sir Wm. WHITLA, M.A., M.D., LL.D., D.Sc.

PRESIDENT AND VICE-CHANCELLOR—R. W. LIVINGSTONE, M.A. Ox., D.Lit.

REPRESENTATIVE IN THE PARLIAMENT OF THE UNITED KINGDOM—Col. T. SINCLAIR, C B., M.D, F.R.C.S. Eng., IN PARLIAMENT OF NORTHERN IRELAND—Sir JOHN CAMPBELL, M A, M D, LL D, F R C S Eng, H S MORRISON, M.D ; Prof. R J. JOHNSTONE, F.R.C.S., J H ROBB, K C

REGISTRAR—Col. T. SINCLAIR, C.B., M.D., M.Ch, F.R.C.S. Eng.

LIBRARIAN—Prof G. GREGORY SMITH, M.A, LL.D.

SECRETARY—ANDREW PICKEN, B.A., LL.B, B L.

SECRETARY OF ACADEMIC COUNCIL—Prof R M HENRY, M A.

BURSAR—JOHN GREEN, C A.

CHAIRMAN OF CONVOCATION—Sir JOHN CAMPBELL, M.A, M D., LL.D.

## PROFESSORS, LECTURERS, ETC.

<i>Accounting</i> , v. Comm.		<i>Agricultural Zoology</i>	
<i>Agricultural Botany and Plant Diseases</i>		Rhynehart, J. C., F.R.C.S. Lectr.	
Mercer, S. P., B.Sc.	Prof.	<i>Agriculture Crop and Animal Husbandry</i>	
Clouston, D, B.Sc.	Lectr.	Rae, R, B Agr.	Lectr.
Muskett, A E., B.Sc, A R.C.Sc.		Wilson, G, M R C V S.	
	Lectr.	Lectr in Dairy Bacteriology.	
Seaton, I. W., B.Sc.		<i>Anatomy</i>	
Lectr. (Plant Genetics).		Walmsley, T., M.D. Glas.	Prof.
Carns, H, B Sc	Asst	Hunter, R. H., M.D.	Lectr.
<i>Agricultural Chemistry</i>		Malcolm, H. P., M.B., Ch.B.	
Baskett, R. C., B.Sc.	Lectr.		Lectr.
Dickinson, F, B.Sc.	Lectr.	Grainger, R., M.B.	Asst.
Houston, J., M.Sc.	Asst.	Ross, L. N.	Asst
Baird, J C., B.Sc.	Asst	Chambers, Ella	Asst.
Common, R. H., B.Sc.	Asst	<i>Anatomy, Applied, Operative Surgery and</i>	
<i>Agricultural Economics</i>		Crymble, P. T., M.B., F.R.C.S.	
Harkness, D. A. E., M.A.	Lectr.	Eng.	Lectr.

*Archæology and Ancient History*

Richmond, I A, M A. Ox. Lectr.

*Bio-Chemistry*

Milroy, J. A., M.A., M D. Edin.

"J. C. White" Prof.

Andrews, S., M D, B Sc

"J. C. White" Lectr

Beattie, F J R, M Sc Demr

*Botany*

Small, J, D Sc Lond Prof.

Lynn, Mary J., M Sc Jr Lectr.

Clapham, Mabel, B Sc. Demr

*Celtic*

O'Brien, M, Ph D., M A Lectr.

*Chemistry*

Stewart, A W, D.Sc. Glas Prof

Marsh, J. K, D.Sc Jr Lectr.

Orr, W B, M Sc, Ph D Asst

Russell, A, B Sc Asst

*Chemistry, Organic*

Graham, Hugh, D Sc Reader.

*Classics*

McElderry, R. K., M A.

Prof (Greek)

Henry, R M., M A (Latin) Prof

Tate, J, M.A. Dub. (Latin)

Jr Lectr.

*Commerce*

Meredith, H O, O B E, M A

Camb, M Com Manc.

Dean of the Faculty,

Lectr, in C and Prof  
of Economics.

Recognized Teachers in the  
Munic Coll of Tech

Dodd, F T. Lloyd, M A, D Sc.

Prof

Boyd, D T., B Com.Sc (Account-  
ing).

Wray, D C, LL D (Coml Law)

Dunne, T (Econ, Geog, and  
Business Methods).

Fleet, H. (French)

Sueyras, M (Spanish)

Carson, J. H. A., M.A. (Maths.).

*Dental Science, v. infra*

*Economics, v. Ag, Comm, Hist.*

*Education*

M'Callister, W. J., M A, B Sc.

Prof.

Laurence, S G, B Sc Asst

Thomson, Margaret, B A. Asst.

*Engineering, Civil*

Hummel, F H, M Sc Birm,

A M I.C.E. Prof.

Finnan, E, M Sc Jr Lectr.

*English Language*

Belfour, A O, M A. Ox Reader

*English Literature*

Smith, G. Gregory, M.A. Ox and

Edin, LL D. Edin. Prof.

Carver, P L, B A Asst

*French and Romance Philology*

Savory, D L, M A Ox Prof

Stephens, Margaret, B A Asst.

Mouyat, Jean, L ès L Asst

*French, Mediæval*

Arnold, I D O, Dr. de l'U Stras.

Lectr

*Geography*

Evans, E. E., B A Lectr

*Geology*

Charlesworth, J K., D Sc Leeds,

Ph D Bres Prof

Hartley, J J, M Sc. Asst

*German*

Williams, R. A., Ph D. Leip,

D Litt. Dub Prof

Beare, M, M A, Ph D Asst

*History, Ancient, v Arch*

*History, Mediæval*

Potter, G R, M A, Ph D Lectr

*History, Modern*

[Prof.

Todd, J E., M.A. Ox. and Edin.

*History, Economic, and Polit. Sc.*

Lemberger, J., M A. Ox. Lectr.

*Law*

Baxter, J. S, LL.D. Dub., K.C.

(Dean of Faculty) Prof.

McNeill, R. N., B.A, LL.B. Lectr.

*Logic and Metaphysics*

Macheath, A., M.A. Glas. Prof.  
 Salmon, C. V., M A , Ph D Asst

*Mathematics*

Dixon, A C , M A , Sc.D. Camb.  
 and Lond , F.R.S. Prof.  
 Hirst, Doris M., M A. Asst.

*Music*

Brennan, C J , Mus Bac. Lectr

*Philosophy, Moral, and History of Philos.*

Selincourt, O. de, M.A Ox. Lectr.

*Philosophy, Scholastic* [Lectr.  
 Ryan, A. H , B A , D D , Ph.D.

*Physics*

Morton, W B , M A Camb Prof.  
 Wylie, J , B A Lectr  
 Emeléus, K G , Ph D. Lectr  
 Brown, W L , M Sc Asst  
 Beck, Louise, M.Sc. Hon Demr.

*"Musgrave" Demrs. :*

Lindsay, E M , B Sc.  
 Thomson, E E , B Sc

*Physiology*

Milroy, T. H., M.D , B Sc Edin Prof  
 Beattie, M K , M D Demr  
 Nevin, S , M B Demr  
 Rankin, J. C , M.D. Hon. Demr.

*Spanish*

Llubera, I. G , D Litt. Mad Prof.  
 Costello, S , B A Asst

*Technology, v. infra**Veterinary Science*

Rice, J. P , B.Sc. Lectr.  
 Kerr, W. R , M R C V.S Asst  
 Lamont, H. G , B.Sc , M.R.C V.S. Asst.

*Zoology*

Wilson, G , O.B.E , M.A., D Sc.  
 Edin., Ph.D. Freib , M.R.I.A. Prof.  
 Riddell, W., M.A. Jr. Lectr.

*Medicine* (for subjects of first 2 yrs.—Anat. etc., v. *supra*)

*Bacteriology*

Graham, N. C., M.B.  
 " J. C. White " Lectr.

*Gynaecology*

Johnstone, R. J., B.A., M.B.,  
 F.R.C.S. Eng. Prof.  
 MacAfee, C. H. G., M B. Asst.

*Hygiene*, v. also Pub Health  
 Wilson, W. J , B A , M D., D.Sc.,  
 D.P.H Prof.  
 Blair, E M McV , M Sc., Ph D. Asst.

*Materna Med. and Therapeutics*

Allen, F M , M D Lectr

*Medicine*

Thomson, W. W. D , M.D., B Sc ,  
 D P H. Prof.  
 Lewis, J. T., M D , B Sc. Asst.  
 2 Clinical Lectrs.

*Medical Jurisprudence*

The Prof. of Pathology Lectr.  
 Houston, Sir Thomas, M D , B A Lectr

*Midwifery and Infantile Diseases*

Lowry, C. G., M.D. Prof.  
 Watson, W. S , M B Tutor.  
 Carson, W , M B Hon. Demr.  
 Lowry, H C., M B Hon. Demr.  
 1 Clinical Lectr.

*Ophthalm and Otology* [Lectr.  
 Craig, J. A , M B., F R.C.S Eng.  
 2 Clinical Lectrs.

*Pathology*

Symmers, W. St. C , M.B. Prof.  
 Drennan, A. M Prof Elect.  
 Tinsdale, G. F. W., M B. Demr.

*Pathology, Clinical*

Houston, Sir Thomas, B.A., M.D. Lectr.

*Pharmacology*

Mayrs, E B. C , M.D. Prof.

*Pharmacy*

[Lectr.  
 Fielden, V. G. L., M.D., Ph.C.

*Public Health Administration*

..... Lectr.

*Public Health, Chemistry*

Totton, J. H., B A , B Sc. Lectr.

*Surgery*, v. also Anat.

Fullerton, A., C.B , C.M G , M.D.,

M.Ch., F.A.C.S. Prof.

Hall, H. P., M B., M.Ch. Asst.

2 Clinical Lectrs

*Vaccination*[Teacher  
Armstrong, S. R., O B E , M.B.**Dental Science**Hunter, W. M , L D S Edin  
(Metallurgy) Lectr.Elwood, H , L D S Edin. and  
Penn (Mechanics) LectrSwan, W. M , L D S , R C S. Eng  
(Surgery) LectrM'Keag, H. T. A., B L.S., B A.  
Dub (Orthod ) LectrFielden, V G L., M D , Ph C  
(Mat Med ) Lectr.**Extra-Mural Studies**

Eason, H. J. Lectr and Director

**Technology** (v. also Agr. and  
Engn.)Extra - Mural Staff (Hon ), being  
Profs. and Lectrs at the  
Munic. Coll. of Tech.*Architecture*Beaumont, I , A R C.A Lond ,  
F R S A Prof.*Building Construction*

Hampshire, T. R. Lectr.

*Chemical Technology*

Wren, H , M.A , D.Sc., Ph.D. Prof.

Still, C. J., M.Sc., Ph.D., A.I.C.  
Lectr.

Hughes, K R., B A. Lectr

*Electrical Engineering and  
Physics*Burns, P. L , B Sc , A M I E E  
Prof (Elec. E )

M'Kenna, O., M.A , B.Sc. Lectr

Yeates, J. F , B Sc. Lectr.

Allen, T P , M Sc Lectr

Crowley, T A , B Sc Lectr.

*Mathematics*

Earls, J., B A. (Principal) Prof.

Murphy, J J F., B Sc Lond.  
Lectr.*Mechanical Engineering*Smith, J H., D Sc , A R C.Sc.  
Prof.Warnock, F. V , B Sc , Ph D ,  
A R C Sc. Lectr.

Fiorde, W J. (Design) Lectr.

Sandham, B., B.E. (Nav. Archit )  
Lectr.*Textile Industries*

Bradbury, F. Prof.

**RECOGNIZED COLLEGES AND TEACHERS**

MUNICIPAL COLLEGE OF TECHNOLOGY, BELFAST, v. *supra*—Commerce and Tech. The complete course for the B.Sc. in Engineering or in Textile Technology may be taken at this college.

**GENERAL INFORMATION**

Queen's College, incorporated in 1849, was dissolved in 1909 on the constitution of the Queen's University of Belfast.

LIBRARY, 101,000 vols. MUSEUMS : Class. Archæol., Nat. Hist., Medical, Materia Medica. LABORATORIES : Chemistry (" Donald Currie "), Engineering (" Harland "), Physiology (" Jaffé "), Pathology and Bacteriology (" Musgrave "), Bio-Chemistry and Bacteriology (" White "), Physics, Anat., Bot., Geol., Pharm., Zool., Agric. HOSPITALS available for Clinics.

3 general, 10 special (Fever, Maternity, Women, Children, Ophth., Eye, Ear and Throat, Consumption, Lunacy, Skin).

**FACULTIES.** (1) Arts (including Music), (2) Science (including Civil Engin.), (3) Law, (4) Medicine, (5) Commerce, (6) Applied Science and Technology, (7) Agriculture, (8) Theology. Dept. of Dental Science. Deans of Faculties: Profs. (1) M'Elderry (Arts), (2) Charlesworth (Science), (3) Baxter (Law), (4) Symmers (Med.), (5) Meredith (Commerce), (6) Hummel (App. Science), (7) Robertson (Agric.), (8) M'Elderry (Theol.).

**DEGREE COURSES.** 3 yrs.—B.A., B.Sc., B.Sc. in Engin. or Textile Tech., LL.B., B.Com.Sc.; 4 yrs.—B. Agr., B.D.S.; 5 yrs. (of which 2 may be in other approved Univs or Med. Schools)—M.B., B.Ch., B.A.O.; 2 yrs.—LL.B. course and B.D. course for graduates of this or another Univ.

The courses in Elec. and Mech. Engin. are taken in the Municipal College of Tech. 3 yrs.' day or 5 yrs.' evening classes in the M.C.T. qualify for B.Sc. in Tech. 3 yrs.' day or 5 yrs.' evening classes in the M.C.T. qualify for the B.Com.Sc. Evening classes in a subject do not qualify for the B.Sc. unless the candidate has concurrent day-time employment in some technical or commercial branch of the same subject.

**Diplomas.** Educn. (1 or 2 yrs.); Higher Dipl. in Educn. (for graduates)

**HIGHER DEGREES.** The M.A. may be taken by a B.A. 1 yr. after graduation (examn. or thesis or independent research). The (1) D.Lit. and (2) LL.D. are conferred on grads. of this Univ. distinguished in (1) letters, or in literary, philos., or hist. research, or (2) Law, or in legal or historical research; they may be obtained by thesis also. The M.Sc. is open to a B.Sc. of the Univ. and grads. of other Univs. holding a degree of similar rank after the lapse of not less than 1 yr. from graduation (thesis or independent research). The D.Sc. is open to grads. of this Univ. 3 yrs. after graduation in any faculty. It is conferred for research or scientific work in relation to Science pure or applied, or for distinction in Science, Engin., or other practical application of Science. The M.D., M.Ch., and M.A.O. are open to graduates in Medicine of 3 yrs.' (if also graduates in Arts or Science, 2 yrs.) standing by examn. or thesis. The M.Agr. may be conferred on a B.Agr. of the Univ. or a graduate admitted *ad eundem* after 2 yrs. for a thesis or independent research. The D.D. is open to grads. in Divinity of this or other approved Universities of at least 6 yrs.' standing. As regards Ph.D. see p. 18.

**FEES.** Enrolment (annual), 3 gs. Class fees, annual (inclusive)—Arts, 11 gs.; Engineering, 21 gs.; B.Com.Sc., 11 gs.; Dipl. Educn. (2 yrs.), 12 gs.; M.B., B.Ch., 25 gs.; B.Sc. or B.Agric., 22 gs.

**SCHOLARSHIPS, ETC., FOR GRADUATES of the Univ.** Studentships of £50: 5 in Arts, which may be raised by £25 and continued for a 2nd yr.; 4 in Science. Special grants to Med. graduates for original research or clin. study Mackay Wilson Travelling Med. Schol'p, £100. Musgrave Studentships in Path., Physiol., Physics, Biol., and Chem., of £200 p.a. for research. Four other Studentships of the aggregate annual value of £330.

**RESIDENCE.** Women's Hostel. Board and residence per annum, about £52. Board and lodging obtainable in the town from about 30s. a week upwards.

There is a Queen's University Club which meets in London. Secy., Dr. J. P. Martin, 9 Harley St., London.

**RECOGNITION OF OTHER UNIVS.** Students from other approved Univs. may apply for exemption from a year's attendance for first degree, attendance

and examn. in some of the subjects for first degrees in Arts and Science, in consideration of equivalent courses and examns. elsewhere.

UNIVERSITY EXTENSION lectures by members of the Univ. Staff are given in Belfast and other towns.

PUBLICATIONS. *Calendar* (Oct.), 2s. ; Students' mag., *The Northman*.

## THE YEAR 1927-28

NEW BUILDINGS. New Building for Faculty of Agriculture opened.

NEW POSTS. Professorship in Pharmacology and Therapeutics Lectureships in Materia Medica and Therapeutics, Geography, Agricultural Chemistry, Agricultural Botany, and a Lectureship and Directorship of Extra-mural studies. Assistantships in German, Logic, and Psychology, Agricultural Chemistry, Agricultural Botany Research Secretary appointed in the Dept. of Economics

HONORARY DEGREES LL D —His Grace the Duke of Abercorn, Governor of Northern Ireland

STUDENTS. Full-time. total, 1011, including 30 graduates Part-time : total, 209, including 25 graduates

DEGREES. D D, 1 ; M.D, 9 ; Ph.D, 2, M A, 11, M Sc, 11, B A, 77 ; B.Sc., 40 ; LL B, 5, M B, 65, B Com Sc, 8, B Agr, 3, B.D S, 1, D P H, 15 ; L.D.S, 6 ; Dip. in Ed, 44.

# UNIVERSITY OF DUBLIN, TRINITY COLLEGE

CHANCELLOR—The Rt Hon THE EARL OF IVEAGH, C B , C.M G.

VICE-CHANCELLOR—The Rt Hon BARON GLENNAVY, LL D.

VISITORS OF TRINITY COLLEGE—THE CHANCELLOR (or VICE-CHANCELLOR) , The Rt Hon SIR THOMAS F. MOLONY, Bart , LL.D.

PROVOST—E J GWYNN, Litt D.

REPRESENTATIVES IN PARLIAMENT OF IRISH FREE STATE—E. H. ALTON, M A , Sir JAMES CRAIG, M D , W. E THRIFT, M.A

## SENIOR FELLOWS OF THE COLLEGE

Roberts, W R W., D D , Vice-Provost.

Culverwell, E. P , M A , Senr Dean and Catechist

Russell, R , M.A , Bursar.

Fry, M. W. J., M.A., Senr. Lecturer.

†Macran, H. S , M A.

Thrift, W E , M A , Auditor.

Smyly, J G , Litt D

## JUNIOR FELLOWS OF THE COLLEGE

Mooney, G W , M A.

†Kennedy, W , M A , Registrar.

†Goligher, W. A , M A , Litt D.

\*Fraser, J , M.A.

Alton, E H , Litt D

\*Gwynn, R. M , B.D.

†Webb, G R , M A , Junr  
Bursar and Registrar of  
Chambers, Junr. Proctor.

\*Tate, Sir Robert W , K B.E.,  
M.A , Junr. Dean.

\*Thrift, H , M A

\*Luce, A A , D D

\*Johnston, J., M A.

\*†Henry, J M , M A

\*†Godfrey, F. La T., M A.

Joly, John, Sc.D.

Rowe, C. H., M.A.

Fearon, W. R., Sc.D.

Starkie, W. F., Litt D.

Synge, J. I. , Sc D

Bailey, K. C., Sc D.

Ditchburn, R. W., M A

\* Tutor Fellows.

† Honor Lecturers for 1928-29.

PUBLIC ORATOR—SIR R. W. TATE, M.A.

LIBRARIAN—J. G. SMYLY, Litt D.

REGISTRAR—W. KENNEDY, M.A.

## REGISTRARS OF THE PROFESSIONAL SCHOOLS

*Law*—W. A. Goligher, Litt.D.

*Civil Service*—E. H. Alton, Litt D

*Physic*—G. L. Allen, M A.

*Education*—R. J. Fynne, M A

*Engineering*—H. Thrift, M A.

*Agriculture*—J. Joly, Sc D

*Music*—W. F. Starkie, Litt.D.

*Commerce*—Bailey, K. C., D.Sc

LADY REGISTRAR—OLIVE C. PURSER, M A

WARDEN OF TRINITY HALL—ELIZ. M CUNNINGHAM, M A

## PROFESSORS, LECTURERS, ETC.

*Anatomy, v. Zool. and Med.*  
—Surg.

*Anglo-Saxon, v German*

*Arabic, Persian, and Hindustani*

Hart, Lt -Col E G. Prof

*Astronomy*

..... Royal

Astronomer of Ireland Prof

Martin, C Asst

*Biblical Greek and Hebrew*

Gwynn, R. M., B D. Prof

*Botany*

Dixon, H. H, Sc D Prof

Clark, T A. Bennet, M A. Ox.  
Asst.

*Burmese*

Nangle, N. C Lectr.

*Celtic Languages*

Gwynn, E J, Litt D Lectr

*Chemistry*

Werner, E. A, Sc D Prof.

Ramsden, W. C. Sr. Asst.

Bailey, K. C, M.A. Lectr.

*Classical Archæol, v. Hist*

*Classical Composition* [Lectr.

Tate, Sir Robert W, K B.E, M.A.

*Classics* [Regius Prof.

Mooney, G. W., M.A. (Greek)

Alton, E. H., Litt.D (Latin) Prof

The Tutorial Staff Lectrs.

*Commerce*

Cooke, J, M A (Commercial Geo-  
graphy) Lectr

Butter, W B (Accounting) Lectr

Broderick, T. S, M A (Statistical  
Method) (also Lectr in  
Mathematics) Lectr.

Smyth, G E (Business Organiza-  
tion, Railways and Trans-  
port) Lectr

Howell, C E, M A (Insurance)

Lectr

Magrath, C R R (Banking and  
Foreign Trade) Lectr.

*Dental Science, v. infra*

*Divinity, v. also Bibl. Gk, Hist.,  
Theol.*

M'Neile, A. H, D D Regius Prof

White, N J. D., D.D (Lectr in  
Hebrew) Abp King's Prof.

Dungan, W. W., M A.

Wallace Lectr.

Luce, A A, D D Asst.

Greene, D. C., B D Asst.

Oulton, J. E. L., M.A. Asst.

Young, E. J., B.D. Asst.

*Economics, v also History*

Duncan, G. A., B A. Lectr.

*Education*

Fynne, R. J, M A. Dub and  
Lond. Prof.



*Engineering, Civil*

Clark, D., B.Sc. Lond.,  
A.M.I.C.E. Prof.  
Jackson, J. T., M.A. Asst.  
Cotter, J. R., M.A. Lectr.  
M'Cormick, F. R. A., A.R.C.Sc.I.

*Engin Practice, Elec.*

Tatlow, W., M.A., B.A.I. Lectr.

*Engineering, Elec. Trachon*

Harriss, G. M., M.A. Lectr.

*Engineering, Harbour*

Griffith, Sir J. P., M.A.I.  
Hon. Prof

*Engineering, Sanitary*

Ross, G. M., M.A., B.A.I.,  
M Inst C.E.I. Lectr.

*English Literature*

Trench, W. Fitz J., Litt.D. Prof  
Gurd, Gladys E., B.A. Asst

*French, v also Romance*

The Tutorial Staff Lectrs.

*Geology and Mineralogy*

Joly, J., M.A., Sc.D. Prof  
Poole, J. H. J., Sc.D. (Asst. in  
Physics also) Research Asst  
Smyth, L. B., Sc B. (Palæontology)  
Asst. and Lectr.

*German*

[Prof.  
Waterhouse, G., M.A. Camb.,  
Litt D (Lectr.in Anglo-Saxon)

*Hebrew, v also Bibl. Greek, Div.*

Kennedy, W., M.A. Lectr.  
Luce, A. A., D.D. Lectr.

*History, Ancient, and Classical  
Archæol.*

[Prof.  
Goligher, W. A., M.A., Litt D.  
Johnston, J., M.A. (also Lectr  
Econ) Asst

*History, Ecclesiastical*

Lawlor, H. J., D.D., Litt.D. (also  
Lectr. on Engl. Bible) Prof.

*History, Modern*

Curtis, E., M.A. (also Prof. of  
Oratory)  
Erasmus Smith's Prof.

Phillips, W. A., M.A.

Lecky Prof.

Maxwell, Constantia E., M.A. (also  
Lectr Econ. Hist) Lectr.

*Irish*

O'Rahilly, T. F., M.A. Prof.  
Beaumont, J. N. Asst.

*Italian, v. also Romance, Span.*

Tate, Sir Robert W., K. B. E., M.A.  
Lectr.

*Law*

Bastable, C. F., LL.D. (also Prof.  
of Pol. Econ) Reg. Prof.

*Law, Feudal and English*

Baxter, J. S., LL.B. Lond., M.A.,  
LL.D.

Reg. Prof. (also Lectr. in  
Civil L. and Jurispr.).

*Law, Const and Crim, etc.*

Moran, Frances E., LL.D. (also  
Lectr Com Law) Reid Prof

*Mathematics*

Rowe, C. H., M.A.  
Erasmus Smith's Prof.  
Webb, G. R., M.A.

*Donegal Lectr*

Broderick, T. S., M.A. Lectr  
M'Connell, A. J., M.Sc., B.A.  
The Tutorial Staff Lectrs.

*Medicine and Surgery, v. infra**Music*

Kitson, C. H., M.A. Camb.,  
Mus D. Ox., F.R.C.O. Prof

*Oratory, v History*

Curtis, E., M.A. Ox  
Erasmus Smith's Prof

*Oriental Langs., v. Arabic,  
Hebrew, Modern, Sansk.**Philosophy, Moral*

Macran, H. S., M.A. Prof.

*Mental and Moral Science*

The Tutorial Staff Lectrs.

*Philosophy, Natural*

Synge, J. L., M.A. Prof.  
The Tutorial Staff Lectrs.

*Physics*, v. also Geol.

Thrift, W. E., M A.

Erasmus Smith's Prof. of

Nat. & Exper. Philos.

Thrift, H., M A Asst.

Ditchburn, R. W., M A Asst

*Physiology*, v. Med.

*Political Economy*, v Law

*Romance Languages*, v. also

French, Italian, Spanish

Rudmose-Brown, T. B., M A ,

D Litt Grenoble Prof.

*Sanskrit and Comp Philol*

Dillon, M Lectr

*Spanish*

Starkie, W. F., Litt.D (also Lectr.  
in Italian) Prof

*Theology, Pastoral*

Moeran, F. M., M A. Prof.

*Zoology and Comp Anat*

Gatenby, J B, D Phil Ox, D.Sc.  
Lond. Prof.

King, Dorothy S, B.A, Sc B.  
Asst

### Medicine

*Anæsthetics*

[Lectr  
Kirkpatrick, T P.C, M D, Litt D

*Bact and Preventive Medicine*

Bigger, J. W., M D. Prof

O'Meara, R A Q., M B Asst

*Bio-Chemistry*

Fearon, W R, D.Sc Lectr

*Bio-Physics*

Bell, J, D Sc Lectr

*Laryngology and Otology*

Woods, Sir Robt H, M Ch  
Hon Prof

*Materia Med. and Pharmacy*

Rowlette, R J, M D. King's Prof

*Med. Jurispr.*

Bewley, H. T, M D Lectr

*Medicine, Institutes of, and  
Physiology.*

Pringle, H., M.D. King's Prof.

*Medicine, Practice of*

Craig, Sir James, M.D. King's Prof.

*Neurology*

Purser, F. C., M.D. Hon. Prof.

*Midwifery*

Wilson, T. H., M.A. King's Prof.

*Ophthalmology*

Coulter, R. J., M B Lectr

*Pathology*

Wigham, J. T, M.D. Prof.

Lait, J, M B Junr. Asst.

Pringle, Seton, M B.  
Hon. Lectr. (P. of Bone).

*Physic*

Moorhead, T. G, M D.  
Regius Prof

*Public Health*, v. also Engineer-  
ing

Falkiner, N M, M.D, D P.H.  
Lectr (Sany. Law and  
Vital Statistics)

*Surgery and Anatomy*

Dixon, A. F, M B, Sc D Prof  
Taylor, Sir Wm, K B E, M D

Regius Prof. of S.  
Gordon, T. E, M B Prof. of S  
Chance, A, M B

Lectr. in Applied A.  
Martin, C. P, M B

Chief Demr and Univ  
Anatomist

Haughton, W S, M D.  
Hon. Prof. (Orthopædic S).

### Dental Science

Hogan, J. E, L D S.  
Lectr. (*Dental Surg. and  
Pathol*).

Friel, E. S., M Dent.Sc.  
Lectr. (*Orthodontia*).

Cockburn, J., L D.S.  
Lectr. (*Dental Mechanics*).

Micks, R H., M D  
Lectr (*Medicine for Den-  
tal Students*)

## ASSOCIATED COLLEGES

MAGEE COLLEGE, LONDONDERRY, for first three years of B.A. course.

CHURCH OF IRELAND TRAINING COLLEGE, KILDARE PLACE, DUBLIN. The two-years' course of training for teaching in elementary schools is conducted partly at Trinity College, Dublin, and counts towards the Dublin B.A. subject to the candidate qualifying in Latin and a modern foreign language before proceeding as "Sophister" (3rd year).

## GENERAL INFORMATION

Trinity College was founded and incorporated by Royal Charter in 1592 as "Mater Universitatis," but no other College has been founded, so that "Dublin Univ." and "Trinity College" are practically interchangeable terms. The Corporation of the College was put on its present basis by Letters Patent of 1637. Letters Patent of 1911 transferred the powers of making statutes from the Crown to the Corporation. The general government of the Univ. is in the hands of the Board of Trinity College, which consists of the Provost, Senior Fellows, 2 representatives of Junior Fellows, and 2 representatives of the non-Fellow Profs. The Univ. Council, formed by representatives from the various Faculties and Schools, has the right of appointment to most Professorships, and in conjunction with the Board can make changes in the curriculum, but otherwise has only advisory functions. The power of making new statutes was reserved to the Crown until 1911, when by Letters Patent this power was given to the Board subject to the consent of a majority of the Fellows and the approval of the Visitors.

The College occupies a large site in the middle of the city, with ample grounds for the athletic clubs.

THE LIBRARY of Trinity College has enjoyed since 1801 the privilege of receiving a copy of every book published in the United Kingdom. It contains over 390,000 printed books, amongst which there is in the Fagel Library a group of early pamphlets relating to the Dutch and English East and West India Companies. The MSS. are over 2000 in number, and include an important collection in Irish. A General Catalogue of the MSS. was published in 1900, and a Revised Catalogue of the Irish MSS. in 1921. A Catalogue of Printed Books in the library in 1872 was published in 1887 and distributed to the world. There is a Lending Library, which includes 6000 vols. bequeathed by the late W. E. H. Lecky; and smaller libraries in the Schools of Mod. Langs., Med., Maths., and Nat. Scs.

MUSEUMS. The scientific museums include Zool. and Comp. Anat., Geol. and Mineral., Surg. and Med., Path., Mat. Med., Anthropom., Engin. Models, Nat. Philos. The Zoological are among the best collections in the country. The series of vertebrate osteology is extensive. Attached Laboratories offer all facilities for research work. The collection of Geological and Mineralogical specimens is also extensive.

LABORATORIES. Anthropol., Bio-Chem., Bot., Chem., Geol., Histology, Mat. Med., Mech. Engin., Pathology, Physical (Iveagh), Physiol., Zool.

HERBARIUM (rich in plants of N. America, India, S. Africa, and Australia). BOTANIC GARDENS, 8 acres.

The Astronomical Observatory of Trinity College is at Dunsink, 5 miles from the College. It is the official residence of the Royal Astronomer of Ireland.

Ample facilities for clinical studies and many appointments for graduates

are available in numerous HOSPITALS, including the well-known Rotunda. The Irish High Court is situated within a short distance of the College.

**PROFESSIONAL SCHOOLS.** Divinity, Law, Physic, Engineering, Indian and Home Civil Service, Agriculture, Forestry, Music, Education, Commerce.

**MATRICULATION.** See Appendices XX. and XXII.

**DEGREES.** Every student must take the B.A. before proceeding to any other degree, except those in music and B.Sc., M.Sc., Ph.D. The course lasts 4 yrs., but it is only necessary to keep 2 out of the 3 terms in each, or 8 in all. It is also possible to complete the course within 3 yrs. from entrance by taking the final examn. of the 1st yr at the time of entering and keeping all 3 terms of the 2nd yr. However, all students not in a professional school or taking the B.Sc. course are required to attend Arts lectures in every term, unless specially exempted (*e.g.* those earning their living by teaching). If exempted they are permitted to keep all of their 8 terms by examn. instead of by attendance.

For the first 2 yrs (Junnr and Senr. Freshman) all subjects are compulsory: Algebra, Geom, Trig., Mech, Logic, Engl. Essay, Latin, Greek *or* French *or* Irish *or* German. After the examn. ("Little-Go") at the end of the 2nd yr. wide freedom of choice is allowed of subjects for the remaining (Junior and Senr. Sophister) yrs., and exemption from one subject is granted to Law, Engin., Comm., and Div students. For Med. students there is a specially reduced Arts course throughout.

Pass Arts teaching, mainly given by the Tutor Fellows, is partly of a catechetical nature. Every student must choose one of the Tutor Fellows (see list above) as his Tutor and should apply to him for all information before and after entrance.

The *Honour B.A.*—known as a *Moderatorship*—can be taken in 11 different groups (*viz* 1 Math, 2 Class., 3 Ment and Mor Philos, 4 Exp Sc, 5 Nat Sc., 6 Hist. and Pol Sc., 7 Mod. Lit., 8 Leg. and Pol. Sc., 9 Eng. Sc., 10 Celtic, 11 Oriental Lang), and undergraduate honours in the same subjects (except Nos. 9 and 11) can be obtained in each academic year and in most subjects in each term. The course lasts four years in the case of Nos. 1, 2, 4, 5, 6, 7, three years in Nos. 3 and 10, and two years in No. 8. Instruction in these Honour courses is given partly by the Profs. and partly by the Tutorial staff.

A B.A. of three years' standing may be admitted M.A. There is no examn for this, nor is a thesis required.

The B.Sc. is obtained by a four-year course consisting of 12 terms of lectures and 4 examns. In the first two years English, French, German, Mathematics, Physics, and Chemistry are compulsory. In the last two years the student studies 3 subjects chosen from Physics, Chem., Bot., Zool., Physiology, Anat.

A B.Sc. with *hons.* is obtained by passing an examn. identical with Moderatorships (see above) in Experimental or Nat. Science.

The B.D. is obtained by an examn. open to all grads in Arts, and the D.D. is open to any B.D., eight years after taking B.A., and is awarded on a thesis or published Theol. work.

The LL.B. course covers 2 yrs.; the M.B., B.Ch., and B.A.O., 5 yrs.; B.Dent Sc., 4 yrs.; B.A.I., 3 yrs. (optional 4th yr. in Elec and Mech. Engin.), Agr.B. or Agr. (Forest) B., 4 yrs., of which 3rd and 4th are taken in Univ. Coll. (N.U.I.); B.Comm., 3 yrs. The M.Sc. and Ph.D. (*v. p.* 18) involve post-graduate study and research for 1 yr. and 2 yrs. respectively.

A candidate for the Sc.D. or Litt.D. must have at least 3 yrs.' standing as B.A., and submit important original work; for LL.D. must be of M.A. standing—a thesis or examn. is required; for M.D. must have taken the M.B.

degree and be of M.A. standing ; for M.Ch. must be a B.Ch. of 3 yrs.' standing ; for M.A.O., a B.A.O. of 2 yrs.' standing ; a thesis or examn. is required for M.D., an examn. for the M.Ch. or M.A.O. A candidate for M.Dent.Sc. must be a B.Dent.Sc. of 1 yr.'s standing, and pass an examn. ; for M.A.I. must have practised his profession for 3 yrs. after graduating as B.A. I. The Mus.D. is granted after an exercise or practical test.

**DIPLOMAS** in Agric, Educn. (Primary and Higher), Econ. and Comm'l Knowledge, Elec. Engin, Gynaec. and Obst. (1 yr. course), D.P.H., Religious Knowledge (women).

*License* in Engineering (first two years of Arts course and complete course in Engineering). *License* in Med., Surg, and Obst. Science.

*Certificate* in Engineering (complete course in Engineering, but without Arts course).

*Testimonium* in Divinity (2 yrs ' course).

**RECOGNITION OF OTHER UNIVS., ETC.** Credit is allowed for terms kept at Oxford or Cambridge, but no student or graduate of any other Univ can take the B.A. unless he has kept at least 2 yrs. at Trinity College. No student can take any medical degree unless he has attended at least 3 yrs in Trinity College.

A B.A., B Sc., or M A. of any of the undermentioned Univs may be allowed credit *pro tanto* for the first 2 yrs. and the examn held at their expiration. Aberd., Belf., Birm, Brist., Edin., Glas., Leeds, Liver., Lond, Manch, St And, Sheff, Wales, and Nat Univ. of Ireland.

A student who has passed two years in Arts studies at any of the undermentioned Univs and passed the examns belonging to that period is given credit *pro tanto* for the first academic year: Adel., All., Bom., Cal., Dacca, Dalh., McGill, Madr., Mel., N. Brun., N. Zea., Panj., Patna, Syd., Tas., Tor., King's Coll. (Windsor, N.S.).

A student who has passed the Matricn examn of any Univ in S Africa, including Latin, Maths, and either French, German, Dutch, or Greek, is admitted without further examn., and, if a Med. student, is excused the Prelim. Med. examn. Medical students are given credit for lectures and examns. in Zool, Bot., Chem., and Physics of any S. African Univ, and also for lectures and practical work in Anat and Physiol, but not for the examns. in these last two subjects. Courses in Path. and Bact. at Cape Town and Witwatersrand are also recognized.

A student who has passed the Intern examn. of any Univ in S Africa is permitted to present himself at the Final Freshman examn, with exemption from those subjects in which he has already passed at the Intern. examn.

A student who has passed the B.A. examn of any Univ. in S. Africa is allowed credit for the 1st two collegiate yrs and for the Final Freshman examn.

To students admitted to advanced standing the entrance fee is remitted and in most cases some of the half-yearly Arts fees.

In keeping terms students from S. Africa are allowed to substitute Dutch for French or German, when 2 languages are required.

Students from S. Africa should write to the Senior Lecturer for fuller information.

Students in Medicine at any "Grade A" Univ, U S A., or at any Dominion or Colonial Univ, may make application to the Dean of the School of Physic for recognition of work done by them. They will be treated according to the general lines adopted in the case of S. African students.

No recognition granted under this scheme will exempt a student wishing to take the Dublin degree from spending at least three full years of Med. study in Trin. Coll.

**FEES.** Entrance, £15; Composition for all Arts and Science Lectures, 20 gs p a.; Medical course total (including Hospitals and Degree fees), about £150; Dental Science total, about £200; Engineering, (3 yrs.) £50 (minimum), in addition to Arts Tuition fees; Divinity free for students in Arts, 20 gs. p.a. for others; Commerce, £47 (if Arts Course is taken), £80 (for external students).

Among SCHOLARSHIPS, PRIZES, ETC., OPEN TO GRADUATES are: Two studentships of £100 offered at the B.A. degree examn.; prizes from £50 upwards to selected honour graduates with conditions of study and research attached. Madden Prize Fund £424 p.a. awarded to unsuccessful candidates at Fellowships examn. or for research work or as a *Travelling* Scholarship. *Travelling* Prize, £100 in Medicine or Surgery (3 mos. to be spent in Berlin, Paris, or Vienna). A number of other prizes, etc. (including the National Hist., nearly £400), are open to graduates under M A. standing

**RESIDENCE.** The College has accommodation for 320 students. Rent £9 to £20 p.a. for single sets, £14 to £32 for double sets of rooms; dinner in Hall, 14s a week. Trinity Hall accommodates 40 women, board and residence, £23 10s. to £28 10s. per term of 10 weeks. There is also a hostel for Divinity students of the Church of Ireland

**PUBLICATIONS** *Calendar* (Oct.), 4s, includes information as to courses, results of examns, degrees conferred, etc; special Suppt. (occasional), lists of past honours, benefactors, etc *Examn. Papers* of the several Honour schools; of the several Professional schools; of Entrance examns. and prizes; and of Pass Arts, are published in pamphlet form at 1s. per set. The final *War List* has been published, price 2s. 6d *Book of T.C.D.*, 1591-1891, 21s (Hodges, Figgis & Co, Dublin). *Hermathena* (occasional), original papers in Arts subjects. *T.C.D. (Students')*, 3d weekly.

## THE YEAR 1927-28

**BENEFACTIONS** From beneficiaries of the late G. L. Cathcart, £4000 for the College Botanical Gardens Bequest of H. W. Mackintosh, late Prof. of Zoology, £3381 7 6. Rockefeller Trustees, £2000 to Adrian Stokes Memorial Fund, in addition to £789 subscribed by his friends. Sir Thomas R. Lyle, F.R.S., £1000 for general purposes Friends of Miss Isabella Mulvany, LL.D., £800 to found a Scholarship in her honour.

**LEGISLATION** Chair of Applied Chemistry suppressed Professorship of Sanskrit and Comparative Philology changed to a Lectureship Right to compete for Fellowship extended to graduates of any University approved by the Board of Trinity College.

**NEW DEVELOPMENTS.** Trinity College (Dublin) Association founded. Lectureships in Bio-Chemistry, Bio-Physics, Sanitary Construction and Planning, and Education Rockefeller Foundation Fellowship in Public Health (R. A. Q. O'Meara).

**RESIGNATIONS.** L. C. Purser, Litt.D., resigned his Senior Fellowship. Prof. S. Young retired.

**DONNELLAN LECTURER.** Canon B. H. Streeter, D.D.

**HONORARY DEGREES.** *Litt.D.*—E. MacNeill, P. J. A. Meilgt, J. G. Robertson. *Sc.D.*—G. L. Streeter. *M.Ch.*—Sir John Bland-Sutton. *M.A.*—G. Fletcher, Margaret Huxley.

STUDENTS. June 1928: Arts, total 1011, including 96 graduates. In addition, 135 medical students not at the time on the books in Arts, and 92 primary teachers in training.

DEGREES. D.D., 3; LL.D., 2; M.D., 8; Litt.D., 2; Sc.D., 4; Ph.D., 4; B.D., 2; M.A., 69; M.Ch., 1; M.Sc., 4; B.Sc., 2; LL.B., 15; M.B., 45; M.A.I., 1; B.A.I., 13; B.Dent.Sc., 2; B.A., 185; Mus.D., 1; Licentiate in Medicine, 1.

# THE NATIONAL UNIVERSITY OF IRELAND

VISITOR—H M THE KING

CHANCELLOR—EAMON DE VALERA, B A , B Sc , LL D , Ph D

VICE-CHANCELLOR—PATRICK J MERRIMAN, M A , LL D , President  
University College, Cork, *until* Dec 31, 1930

PRO-VICE-CHANCELLORS—THE PRESIDENTS, UNIV. COLLS , DUBLIN  
AND GALWAY, AND ST PATRICK'S COLL , MAYNOOTH

REPRESENTATIVES IN THE DAIL—M HAYES, M.A.; P. M'GILLIGAN,  
M A , M TIERNEY, M.A.

REGISTRAR—FRED H. WIBER, LL D , 49 Merrion Square, Dublin

CONSTITUENT COLLEGES University Colleges, Dublin, Cork, and  
Galway

RECOGNIZED COLLEGE St Patrick's College, Maynooth

## PROFESSORS AND LECTURERS

Prof of Catholic Theology—J J. Hannon

Staffs of the Univ Colleges, *v infra*

Recognized Teachers in approved degree courses in St Patrick's  
College, Maynooth (President—Rt Rev Monsignor MacCaffrey, Ph D )  
*Classics*—J F D'Alton, M A , D D , D Litt , M M'Laughlin, B A ;  
T Gibbon, B A , J Duff, M A *Eastern Languages*—P Boylan, M A ,  
D Litt *English*—C Mulcahy , P MacSweeney, M A *French and  
German*—J L Rigal, M A *Irish*—G O'Nolan, M A , D Litt *Maths  
and Math Physics*—P J Browne, M A , D Sc *Expl Physics*—P J.  
Nolan, M Sc , Ph D *Mental and Moral Philos*—M Forker, D Ph ,  
D D , P Coffey, D Ph , J O'Neill, D Ph *Music*— . . . . *Welsh*—  
P Walsh, M A *Education*—W J Williams, M A , Dip in Ed.  
(Teaching)

## GENERAL INFORMATION

Queen's University in Ireland, founded in 1850, was replaced in 1880 by  
the Royal University of Ireland, which was dissolved along with Queen's  
College, Belfast, on Oct. 31, 1909. On this date the National University of  
Ireland, Univ. College, Dublin, and Queen's University of Belfast came into  
being, and the Colleges previously known as Queen's at Cork and Galway  
became with the new College at Dublin constituents of the N.U.I.

FACULTIES. (1) Arts, (2) Philosophy and Sociology, (3) Celtic Studies, (4)  
Science, (5) Law, (6) Medicine, (7) Engineering and Architecture, (8) Commerce.  
Music is included in Arts and Celtic Studies. Classes are held in all Faculties  
at each of the constituent Colleges, and in 1, 2, 3, and 4 at Maynooth



**DEGREES.** B.A., M.A., D.Litt., B Mus., D.Mus., D.Litt.Celt.; B.Sc., B.Agr.Sc., M.Sc., M.Agr.Sc., D.Sc.; LL.B., LL.D.; M.B., B.Ch., B.A.O., M.Ch., M.A.O., M.D., B.Sc. and D.Sc. in Pub. Health, B.D.S., M.D.S.; B.E., B.Arch., M.E., M.Arch.; B Comm, M.Comm; Ph.D.

Course for a First degree in any faculty—9 terms in one of the Constituent Colls. or St. Patrick's

The M.Sc., M Agr Sc., D.Sc, B Sc, Pub. Health, M.E., M.Arch., Ph. D. may be conferred on graduates or other students for research under prescribed conditions in the Univ or in a Constituent Coll during at least 3 terms for a Master's degree or 6 terms for the Doctorate. The duration prescribed for the course of study and research for the Ph.D. is 9 terms (reducible to 6). See p. 18.

*Diplomas* are offered in the subjects of Faculties 1, 3, 8, and in several others; certificates in Commercial subjects. A Higher Diploma in Educn. may be obtained by a graduate of any Univ of the U K. or other approved Univ. after a course in one of the Constituent Colls.

**FEES.** Matricn., £3. Combined examn. and degree, £9 to £21. Diplomas £2 to £5.

**STUDENTSHIPS, ETC., FOR GRADUATES.** Five of £200 each, tenable for 2 yrs. outside Ireland (to which a prize for a further year of Irish Historical Research may be added), open to graduates of the Univ. of not more than 4 yrs.' (one in Medicine, 2 yrs.) standing; one of £150 in Mental and Nervous Diseases; one of about £40; prize of £100 for Irish Historical Research.

**PUBLICATION** *Calendar* (July), 2s.

## THE YEAR 1927-28

**HONORARY DEGREES.** *LL D*—P J. Merriman, M A ; P. J. Hennessy; J. A O'Mahony. *D Litt*—R. Donovan, Alice S A. S. Green, T. P. Bodkin. *D.Litt.Celt.*—T. F. O'Rahilly, M A *D Mus*—J M'Cormack.

**TRAVELLING STUDENTS, 1928** Heavey, Margaret M (Ancient Classics); Walshe, Mary (Celtic Studies), Pender, J. (History); Doyle, R. J. (Chemistry).

**DEGREES.** B.A., 296, M A, 29, B.Mus., 2, Ph D., 4; D.Litt., 1; M.Econ Sc, 1; D.Econ Sc, 1, B.Sc., 39, M Sc, 17, B Agr.Sc, 6; B.Sc. (Dairying), 1; LL.B., 7, M.B, B.Ch., B.A O, 97; M D., 9, M Ch., 4; M.A.O, 1; B D S., 11, B E, 24, B Comm., 46, M Comm, 1; D.P H., 27; Diploma in Mental Diseases, 1, Diploma in Education, 46; Higher Diploma in Education, 125, Diploma in Irish Studies, 2.

# UNIVERSITY COLLEGE, DUBLIN

VISITOR—H.M THE KING.

PRESIDENT—D. J. COFFEY, M A., M B., B Ch., B A O., LL D.

REGISTRAR—Prof A W CONWAY, M A., D Sc., F R S.

SECRETARY AND BURSAR—J W. BACON, M A

LIBRARIAN—J. J. O'NEILL

## PROFESSORS, LECTURERS, ETC.

<i>Accountancy</i>		<i>Botany</i>	
O'Connor, D, A C.A.	Lectr	Doyle, Joseph, B A, M Sc	Prof.
<i>Agricultural Botany and Bacteriology</i>		**O'Connor, P, B Sc	Demr.
*Gorman, M J, A R C Sc I.		<i>Chemistry</i>	
<i>Agricultural Chemistry</i>		Ryan, H, M A, D Sc	Prof
*Stephenson, G.		Algar, J, M.A, D Sc	Lectr.
<i>Agriculture (General)</i>		Keane, J, M.Sc., Ph.D.	Asst.
Drew, J. P., M.Sc., A R C Sc I.		<i>Chemistry, Organic</i>	
<i>Anatomy</i>		*O'Farrelly, A, M A, F I C.	
M'Loughlin, E P., B A, M B, B Ch, B A O		<i>Chemistry, Physical and Metallurgical</i>	
McAuley, C. J., M B, B Ch, F R C S		*Leonard, A G G., B Sc, Ph.D	
Meade, H. S, F R C.S			
Keenan, E, M B., B Ch		<i>Classics</i>	
<i>Animal Nutrition</i>		Tierney, M., M.A (Greek)	
Sheehy, E J, B Sc, A R C Sc I.		Semple, P, M A (Latin)	
<i>Archæology, Celtic</i>		Gwynn, A S J, M A, B Litt.	
Macalister, R A S, M.A, D Litt.		(Ancient History)	
<i>Architecture</i>		Farrell, E, B A	
Butler, R M, F.R I.B.A,		<i>Commerce</i>	
F R I A I.		Shields, B F., M A.	
Todd, A C, Dipl Arch Liv,		<i>Dentistry, v. infra</i>	
A R I B A		<i>Economics, National, of Ireland</i>	
<i>Banking and Finance</i>		O'Brien, G, B.A., D.Litt., B.L.	
Leet, F L, LL D			

\* Profs. and Lectrs of the former Royal College of Science who have accepted equivalent offices in Univ College, Dublin, and have been appointed Profs. and Lectrs. of the N.U.I in this College.

\*\* Demonstrators similarly appointed.

<i>Education</i>		[Prof.]
Corcoran, T. S J	B A , D Litt	
*Williams, W. J	M A	Lectr.
Aughney, E	M.A , H Dip Ed.	
		Asst.
Sugrue, M.	B A., H.Dip Ed	Asst.
<i>Engineering, Civil</i>		
Purcell, P. F.	M A . M A I ,	
	A.M I C E.	Prof.
Lewis, F.	B Sc.	Asst.
<i>Engineering, Electrical, v. Physics</i>		
<i>Engineering, Mechanical</i>		
*Taylor, J	M A	Lectr
**Warwick, F. W	B A , B E	
		Acting Lectr.
**Cormack, P.	F R.C Sc.I.	Demr.
<i>English Lang and Philology</i>		
.....		Prof.
McSweeney, J. J.	M A.	
		Temp Lectr.
<i>English Literature</i>		
Donovan, R	B A	Prof
McCarvill, Mary	M A	Asst.
Hogan, J J	M A , B Litt	Asst.
<i>Forestry</i>		
*Henry, A	M A , F L S.	Prof.
<i>French and Romance Philol</i>		
Chauviré, R	D ès L.	Prof
O'Kelly, Mary	B.A	Lectr.
Harnett, Ellen	M.A	Asst.
<i>Geology</i>		
Seymour, H J	B A , B Sc	Prof
Corballis, J	A R C Sc I	Demr.
<i>German</i>		
Macken, Mrs	M A.	Prof
Bowler, Margt.	M A.	Asst.
<i>History</i>		[Prof.]
O'Sullivan, J. M	M A., Ph D	
Binchy, D. A	M A.	Acting
Webb, J. J.	M.A., LL.D.	Dublin
	Corpn	
	Lectr in Municipal H.	
	(acting).	
<i>History, Early, including Mediæval Irish</i>		
MacNeill, J.	B.A , D.Litt.	Prof.
<i>History, Modern Irish</i>		
Hayden, Mary T	M A	Prof.
<i>Horticulture</i>		[Lectr.]
Sherrard, G O.	A R C Sc.I.	
<i>Irish, Early and Mediæval</i>		
Bergin, O	D.Litt. Wales, B A.,	
	Ph.D.	Prof.
<i>Irish Lang and Lit., Modern</i>		
Hyde, D	LL D , D Litt	Prof
<i>Irish Language</i>		
O'Farrelly, Agnes	M A	Lectr
Delargy, J. H	M A	Asst.
Dillon, M	M A , Ph D.	Asst.
<i>Italian and Spanish</i>		
Degani, Maria A	Dipl	Univ
	Padua	Prof
<i>Law, Constitutional, etc.</i>		[Prof.]
Ryan, M J.	B A., B Sc , B L	
<i>Law, Jurispr, and Internat and Roman</i>		
Binchy, D. A.	M A., Ph D.	Prof
<i>Law of Property and of Contracts</i>		
Clery, A E	B A , LL D , B.L.	
		Prof
<i>Mathematics</i>		
M'Weeney, H C	M A	Prof
<i>Mathematics, Pure</i>		
Egan, M F	S J , M A.	Lectr
Keating, G	M Sc	Asst.
<i>Mathematics, Pure and Applied</i>		
*Orr, W MacF.	M A , D Sc.,	
	F.R S	Prof.
<i>Mathematical Physics</i>		
Conway, A. W	M A., D Sc ,	
	F.R S.	Prof
<i>Medicine and Surgery, v infra</i>		
<i>Music</i>		
Larchet, J F	Mus.D.	Prof.

\* Profs. and Lectrs. of the former Royal College of Science who have accepted equivalent offices in Univ. College, Dublin, and have been appointed Profs. and Lectrs. of the N.U I in this College.

\*\* Demonstrators similarly appointed.

*Music, Irish*

O'Dwyer, R. Prof. (acting).

*Oriental Languages*

Boylan, P., M A , D.Litt. Prof

*Philosophy*

O'Keeffe, D , M.A. (Ethics and Politics) Prof.

Shine, J., M A (Logic and Psychology) Prof

Magennis, W , M A (Metaphysics) Prof

*Physics, Experimental*

Nolan, J J , M A , D Sc Prof.

Dowling, J J , M A , F Inst P. Lectr.

Nolan, P. J., M Sc , Ph.D Asst.

*Physics and Electrical Engineering*

\*Hackett, F. E , M A , M Sc , Ph D Prof

\*\*O'Callaghan, P , A R C Sc I

\*Allen, R G , B Sc , M I E I Lectr (*Electro-Technology*)*Physiology and Histology*

O'Connor, J M , B A., M D Prof

Conway, E , M Sc , M B , B Ch Asst.

*Plant Breeding*

Caffrey, M , A R C Sc I Lectr

*Plant Pathology*

Murphy, P., D Sc , F R C Sc I Prof

M'Kay, A T , M B , B Ch , B A O Asst

*Political Economy*, v also Econ.

Finlay, T A , S J , M A. Prof

*Welsh*

Jones, J Ll , M A , B.Litt Prof

*Zoology*

Butler, J B , M A., M B., B Ch., B A.O. Prof.

**Medicine***Med. Jurispr*

Meenan, J N , M B , B Ch., B A O , D P H. Acting Lectr.

*Mat. Med and Therap* [Prof.

Hayes, Maurice R. J., F R S C.I.

*Medicine*

Meenan, J N , M B , B Ch., B A O , D P H (Systematic Medicine) Prof.

Moore, H F , M D., B Sc (Medicine) Prof.

*Midwifery and Gynæc*

Farnan, R. P., M B., B Ch. Prof.

O'Kelly, J J , B A , M.B , B Ch., M A O Lectr (Obstetrics)

White, R , F R C S I. Lectr. (Gynæc ).

*Ophthalmology*

Werner, L , B A , M B , B Ch , B A O , F R C S I Prof

*Pathology and Bacteriology*

O'Farrell, T T , F.R.C.S I., D P H. Prof.

*Pathology, Special*

Crofton, W M , B A., M.D. Lectr.

*Public Health and Bacteriology*

O'Kelly, W D , M D , D P H , D Sc. Pub. Health Prof.

*Surgery*..... Prof  
Barniville, H. L , B A , M D., M Ch. Asst.**Dentistry**

Sheridan, E , F R C S I , L D.S , M D.S Prof (D. Surg ).

Potter, J I , L D S , M D S Prof. (D. Mech ).

Flanagan, L B D S , M B , B Ch. Lectr. (Orthod.).

\* Profs and Lectrs of the former Royal College of Science who have accepted equivalent offices in Univ. College, Dublin, and have been appointed Profs. and Lectrs of the N.U.I. in this College.

\*\* Demonstrators similarly appointed.

## GENERAL INFORMATION

The College was constituted by Royal Charter in 1909. The LIBRARY, 65,000 vols., includes the books of the late Catholic Univ. and R.U.I., the Palles Law Library (presented by Archbishop Walsh), the Stopford Green and the Zimmer Celtic Library. MUSEUMS Ancient History. LABORATORIES include those of the late R.U.I. and of the new buildings completed in 1919.

COURSES are provided for the degrees of the N U I in all Faculties

FEES for tuition, annual, in degree courses: Arts or Comm—14 gs.; Science—£20 to £25; Engin.—£20 to £23; Law (in addition to Arts)—8 gs.; Med (including Coll. Hospl.), whole period—£165.

COLLEGE SCHOLARSHIPS, post-graduate in Arts or Science, 5 of £60

RESIDENCE Hostels for men and for women Students are subject to supervision by Deans of residence

PUBLICATION. *Calendar*, Nov., 5s.

## THE YEAR 1927-28

STUDENTS Full-time total, 1062, graduates, 168, preparing for a first degree, 894 Part-time total, 109; degree, 0; certif music, 29, Architecture, 6, Law, 77; occasional, 7 Non-matriculated, part-time, 79

Vacation Courses (Summer) post-grad medical, 22, foreign, 43; Irish, 70.

DEGREES OBTAINED B A., 150; LL B., 6; B Sc., 40, B.Comm., 40; M.B., B Ch., B A O., 71, B D S., 7, B E., 21, B Agr Sc., 8; M A., 24; M Sc., 6, M Comm., 2, M D., 8; M Ch., 1; Ph.D., 2, D.Sc., 1; D.Sc. Public Health, 1; Higher Dipl. Educ., 84, D P H., 17, Dipl. Ment. Diseases, 1

COLLEGE OF SCIENCE FOR IRELAND, DUBLIN: TRANSFERENCE TO UNIVERSITY COLLEGE, DUBLIN—By the provisions of the University Education (Agriculture and Dairy Science) Act 1926 of the Irish Free State the functions of the College of Science have been transferred to University College, Dublin, and special provisions have also been made by the Act for the establishment of new Faculties of General Agriculture and Dairy Science in the University Colleges, Dublin and Cork respectively, with endowment for each of those Faculties. In connexion with the transference the buildings of the College of Science have been leased to University College for a period of ninety-nine years, subject to certain reservations for the accommodation of Government Departments. By the Act equivalent appointments in University College were required to be offered to existing officers of the College of Science.

The same Act also transferred the Albert Agricultural College and farms to University College, Dublin, on lease for the purposes of the new Faculty of General Agriculture, and existing officers similarly received equivalent appointments therein. New Statutes provide for the organization of the new Faculty, which by its special endowment will provide for a wider development of higher instruction in Agriculture and research related to it than formerly. The Faculty of General Agriculture is placed in University College, Dublin. Apart from the

Faculty of General Agriculture in the Dublin College, the main effect of the transference of the College of Science is a limitation in duplication of buildings and equipment in overlapping subjects

The LABORATORIES are fitted throughout with all modern appliances. Facilities for technical research in all branches of Chemistry, *e g* extraction of metals, production of metallic alloys, glazes, enamel, glass, pigments, paints, coal-tar derivatives, peat products, synthetic drugs. Engineering Pattern Shop, Foundry, Smithy, Machine Shop, examples of types of engines aggregating 700 H P. Hydraulics and Hydraulic Machinery Labs. Testing Machines recording up to 100 tons. Elec Engin Labs. with D C and A C machines. Extensive Physics, Agric, and Nat. Sc. equipment.

LIBRARY with 59,000 Scientific and Tech. books, 10,000 pamphlets, numerous maps, etc

## UNIVERSITY COLLEGE, CORK

VISITOR—H.M. THE KING.

PRESIDENT—P J MERRIMAN, M A , LL D

REGISTRAR—A. O'RAHILLY, M A., B.Sc., Ph D.

SECRETARY AND BURSAR—J. DOWNEY, M Comm

LIBRARIAN (ACTING)—T A CONROY, M A

### PROFESSORS, LECTURERS, ETC.

- |  |  |
|--|--|
| <i>Accounting and Business Administration</i>  | Donnelly, J T, M Sc, A.R.C.Sc.I.<br>(Applied Chem.) Asst.          |
| Magennis, A J, M Econ Sc,<br>F S A A Prof  | <i>Classics</i>  |
| MacCarthy, C P, M Comm Lectr<br>i Demr.  | Treston, H J., M A., D.Litt. Prof.<br>Porter, W. H, M A Dub Lectr. |
| <i>Agriculture</i>   | <i>Dairy Science</i>   |
| Boyle, C, M.A Wisc., B Sc,<br>Ph D. Lond, D I C. Prof.   | Grimes, M, B Sc Tor, M Sc.,<br>Ph D Iowa Lectr (D Bact ).          |
| <i>Anatomy</i> [Prof.  | Lyons, J., A R C Sc I, N D A,<br>N D D Lectr (D Tech )             |
| Fitzgerald, D P, B A, M B  | McGrath, B E, A M I E E<br>Lectr (D Eng ).                         |
| Henley, F. J., B.A., B Sc, M B.<br>Asst.   | Pyne, G T, B Sc Lond, M Sc,<br>Ph D Lectr (D Chem )                |
| Kiely, P., B Sc, M Ch, M D,<br>F R C S Eng Asst<br>i Demr.                                     | Murphy, M, M A, B Comm<br>Lectr (D Accountancy<br>and Econ ).      |
| <i>Archæology</i> [Prof  | <i>Dentistry, v. infra</i>   |
| Power, Rev P, D Litt, M R I A  | <i>Economics and Commerce</i> [Prof.                               |
| <i>Architecture</i> [Lectr.  | Busteed, J, M Comm, F S S.   |
| Hill, H. H., B.A. Liv., A.R.I.B.A.   | Larkin, W P, M A, Ph D. Lond.<br>Asst.                             |
| <i>Botany</i> [Prof  | <i>Education, Methods of</i>                                       |
| Cummins, Maj H A, M D, C M.G<br>i Demr.  | O'Sullivan, Eliz. M, M A. Prof.                                    |
| <i>Chemistry</i>   | <i>Education, History of</i>                                       |
| Reilly, J., M A. Camb, D.Sc.<br>Geneva, Dub, H Dip Ed,<br>F.R.C.Sc.I., F I.C., F.I.P.<br>Prof. | McSweeney, E. P. Lectr.  |
| Taylor, John, D.Sc. Lectr.   | <i>Engineering, Civil</i>  |
| Kennedy, R., M.Sc. Asst.   | Walsh, H. N., M E., D.I.C. Prof.                                   |
| Drumm, P. J., M.Sc, Ph D Asst.   | Coffey, Patrick, B.E. Asst.  |
|  | <i>Engineering, Municipal</i>                                      |
|  | Farrington, S. W., B.A., B.E.<br>Lectr.                            |

<i>English</i>	[Prof.	<i>Spanish</i>	
Stockley, W. F. P., M A Dub		Cooke, W. C., M.A.	Lectr.
<i>French</i>		<i>Zoology</i>	
Verrier, Simone	Asst.	Renouf, Louis P. W., B A. Camb., Dip Agric Camb.	Prof
<i>Geology and Geography</i>		i Demr.	
Swain, I., B A., A.R.C Sc I	Prof.		
<i>German</i>		<i>Medicine</i> (for subjects of first 2 yrs — Anat., etc., v. <i>supra</i> )	
Boyle, Mrs. Mary, M A	Prof	<i>Hygiene and Public Health</i>	
<i>History</i>		Saunders, J. C., M B, D P H	Prof.
Hogan, J., M.A.	Prof.	<i>Materia Med</i>	
<i>Irish Lang and Lit</i>		Donovan, T., M A, M B	Lectr
O'Donoghue, T., D Litt	Prof	i Demr	
O'Donoghue, E.	Lectr	<i>Medical Jurisprudence</i>	
O'Cadhlaigh, C., M A.	Asst.	O'Donovan, J. M., M Sc, M D.	Lectr
<i>Irish Music</i>	[Lectr.	<i>Medicine</i>	
Patterson, Annie, B A, Mus Doc		O'Sullivan, P. T., M D, B Ch, B A O, M R C P	Prof
<i>Jurisprudence</i>		<i>Mental Diseases</i>	
Murphy, C. K., M A, LL B, H Dip Ed.	Prof	McCarthy, O. F., L R C P and S. Edin, L.R F P S. Glas	Lectr.
<i>Law</i>		<i>Obstetrics and Gynaecology</i>	
Daly, George J., B L	Prof. (Real Property)	Kearney, J. J., M D, D P H	Prof.
<i>Mathematics</i>		<i>Ophth and Otology</i>	
Conian, M. J., M A, D.Sc.	Prof	O'Hea-Cussen, V., M B, D O	Lectr
<i>Mathematical Physics</i>	[Prof	<i>Pathology</i>	
O'Rahilly, A., M A, B Sc, Ph D		Moore, A. E., M B, B Ch, B A O	Prof
<i>Medicine and Surgery</i> , v <i>infra</i>		<i>Surgery</i>	
<i>Music</i>		Dundon, J., M.B, B Ch, B A.O., F.R C S	Prof.
Lacy, F. St. J., F R A M	Prof	Pearson, C. B., M D, M.Ch.	Asst.
<i>Philosophy</i>		<i>Therapeutics</i>	
Fitzgibbon, T. E., B A, Ph D.		Cantillon, E. V., M B	Lectr
Louvain	Prof		
Callaghan, Rev John, M A	Asst	<i>Dentistry</i>	
<i>Physics</i>		Hackett, J. R., M.B, L D S.	Lectr (D Surg.).
Bergin, W., M A Dub	Prof.	Sheedy, G., L.D.S.	Lectr. (D. Mech.).
Belas, P.E., B.A., M.Sc., A.R C Sc I.	Lectr		
<i>Physiology</i>			
Barry, D. T., M D, D Sc, D P H, F R C S	Prof		
i Demr.			
<i>Romance Languages</i> , v also			
<i>French</i>			
Ryan, Mary, M A	Prof		
i Asst			



## GENERAL INFORMATION

Queen's College, Cork, founded in 1845, became a constituent College of the N.U.I. in 1908.

**LIBRARY:** 100,000 vols., including the d'Arbois de Jubainville collection of Celtic works, the Shaiman Crawford Library, the Wilson Historical Library, the Sexton Anglo-Indian Library. **MUSEUMS:** Archæol., Ethnol., Geol., Mineral, Nat Hist, Med

**LABORATORIES.** Agr, Biol., Chem., Engin (Testing, 200,000-lb. machine, and Hydraulics), Geol, Physics, Medical School. **BOTANICAL GARDENS.** **OBSERVATORY** with 8" equatorial and 11" photo. telescopes, seismograph, and 4" siderostat.

Complete Courses provided for all degrees and diplomas of the Univ, except 2 years in the B.Sc Agric course. Students are also prepared for the exams of the Univ. of London. The College Certificate in Dairying (2 years' course) must be obtained by all those who wish to become creamery managers in Ireland.

Commerce students can do 6 mos' practical work in railway or accountants' offices, etc

**FEES** for tuition, including College fee: Arts, £45; Science, £76; Engin., £73; Med, £165, including Hospl fees, Dentistry, £185, including Hospl. fees; Music, £39.

**RESIDENCE.** Hostel for men and hostel for women (charitable trust, R.C only); students are supervised by Officers of Residence.

**PUBLICATIONS.** *Calendar* (Easter), 6d, *Sessional Lists* (June), 6d.

## THE YEAR 1927-28

**NEW DEVELOPMENTS** A new Entrance Bridge was begun. President Cosgrave laid the foundation stone of the new Institute of Dairy Science. Two new Lectureships (Dairy Accountancy and Economics, Municipal Engineering) were created. Three new rooms for the Irish Department were built. About 5000 additions were made to the Library. The Geology Museum was transferred in order to provide for a special History Library.

**STUDENTS.** Full-time, 428, including 65 graduates. Part-time, 21.

**DEGREES OBTAINED.** B.A., 49, M.A., 4; B.Sc., 8; M.Sc., 7, B.Comm., 8; M.B., Ch.B., B.A.O., 36, M.D., 1, M.Ch., 3, M.A.O., 1, B.D.S., 1; B.E., 12; Ph.D., 2.

# UNIVERSITY COLLEGE, GALWAY

VISITOR—H.M. THE KING.

PRESIDENT—ALEXANDER ANDERSON, M A Camb , D.Sc , LL D

REGISTRAR AND SECRETARY—Rev. Prof. J. HYNES.

LIBRARIAN—Prof HOWLEY.

BURSAR—Prof WALSH.

## PROFESSORS AND LECTURERS OF THE UNIVERSITY

<i>Anatomy</i>	<i>History (Special Reference to Irish H )</i>
Shea, S , M B , B Ch , B A O Prof.	Donovan O'Sullivan, Mrs , M A
I Demr.	Prof
<i>Archæology, Celtic</i>	Kennedy, Miss S , M A , H Dip Ed
Hynes, J , M A , B D. Prof.	Lectr.
<i>Chemistry</i>	<i>Irish Lang , Philol , and Lit</i>
Dillon, T , M A , D.Sc. Prof	O'Maille, T , M A. Manc , Ph.D.
Clarke, Miss R , B A , D Sc Demr	Frei. Prof.
<i>Classics, Ancient</i>	<i>Irish, Modern</i>
.. .. Prof	Mac Enri, S P , M A , M D Lectr
<i>Economics, Commerce, &amp; Acctcy</i>	<i>Law and Jurisprudence</i>
M'Bryan, F , M A , H Dip Ed Prof	Arkins, P. A , B.A., LL B. Prof.
Buckley, L., B Comm Lectr.	<i>Mathematics</i>
<i>Education</i>	Power, M , M A , B Sc Prof
Larkin, P , B A , H Dip Ed. Prof.	Mitchell, J., B.Sc , B E. Asst.
<i>Engineering, Civil</i>	<i>Medicine and Surgery</i>
Rishworth, F. S , B E , B A ,	Mahon, R B , M D , M Ch ,
A M I C E Prof	F R C S E (Pract of M ) Prof.
Glynn, J P , M E Sub Prof	. . . . (Materia Med ), etc Prof.
O'Connor, H G , M E.,	English, Adeline, M B , B Ch ,
A M I C E I. Asst.	B A O (Mental Diseases)
<i>Engineering, Electrical</i>	Lectr
Griffith, W G., B Sc Lond ,	.. . . (Obst and Gynæc ) Prof
A M I E E , M I C E I. Prof.	Mac Enri, S, P , M A , M D. Dub ,
<i>English Language and Lit</i>	B Ch. (Ophth and Ot ) Prof.
Byrne, W A , M A. Prof	Walsh, T , M A , H Dip Ed., B Sc ,
<i>Geology and Mineralogy</i>	M.D , D P.H.
Mitchell, J , B Sc , B E. Prof.	Prof. of Pathology and
<i>German</i>	Lectr. in Med. Jur. and
Shea, Mrs. M. M , M.A. Prof.	Hygiene.

O'Malley, M G, M.B., B Ch., F.R.C.S.E (Practice of S.) Prof.	<i>Philosophy</i> Howley, J. F. W., D.Litt. Prof.
Assts. in Obst. and Gynæc. and Pharmacy :	<i>Physics</i> The President Prof.
Morris, D. V., M.B, M.A O.	McHenry, J. J, M.A., M.Sc. Asst.
Waters, J. J., M.B.	<i>Physiology</i> Donegan, J. F., M.B., B.Sc Prof.
<i>Natural History</i> Dinan, T. J, M.Sc Prof.	<i>Romance Languages</i> O'Brien, W., M A. Prof.

## GENERAL INFORMATION

Queen's College, Galway, opened in 1849, became a constituent College of the N.U.I. in 1908.

LIBRARY. 50,000 vols. LABORATORIES. Physics, Chem., Biol, Physiol, Path, Geol., Engin. MUSEUMS Nat Hist, Mat. Med, Gynæc., Anat. Dept.

DEGREE COURSES in Arts, Celtic, Science, Law, Med, Engin., Commerce. Courses for Diplomas in Educn., Irish Studies, Commerce, and Public Health.

Med. degree students are required to spend 1 yr at a Metropolitan Hospl. after a 4 yrs.' course in the College and 2 yrs. in the Galway Hospitals.

FEES. College, £2 (women, £1) Degree courses (approximately) : Arts, £26 ; Science, £30 to £45 ; Law, £12 ; Medicine (including 2 years General Hospital fees), £78 ; Engineering, £46 ; Commerce, £32 Post-graduation or research course, £5.

SCHOLARSHIPS open to students of the Coll on graduation : 4 of £30.

RESIDENCE The cost of board and lodging for a student varies from 26s. to 30s. a week. Every student is required to register under a Dean of Residence, who exercises supervision over the general conduct of students outside the precincts, and every woman student under a Lady Supt., who exercises supervision over their conduct within the precincts of the College.

PUBLICATIONS. List of licensed lodging-houses, free ; *College Calendar* (1s 4d.), *Regns. for Degrees and Courses* (8d.), *Regns. for Scholps. and Diploma in Educn.* (2½d) ; *Gaeiltacht Scholarships* (1½d), from O'Gorman and Co., Galway ; *Univ. Examn Papers* (post free, 1s. 8d), from Supervisor of Examns., Univ. Coll.

## THE YEAR 1927-28

STUDENTS. Full-time, 227, including 27 graduates. Part-time, 80.

DEGREES OBTAINED. D.Litt., 1, B.A, 17, B.Sc, 3, LL.B., 1 ; M.B., 16 ;

# CANADIAN UNIVERSITIES

In *Nova Scotia* : ACADIA, DALHOUSIE, KING'S COLLEGE, ST FRANCIS XAVIER. In *New Brunswick* NEW BRUNSWICK, MOUNT ALLISON. In *Quebec* : BISHOP'S COLLEGE, LAVAL, MCGILL, MONTREAL. In *Ontario* : MCMASTER, OTTAWA, QUEEN'S, TORONTO, TRINITY COLLEGE, VICTORIA, WESTERN ONTARIO. *Western Provincial Univs.* : MANITOBA, SASKATCHEWAN, ALBERTA, BRITISH COLUMBIA.

## GENERAL DESCRIPTION

[Contributed by A Stanley Mackenzie, Ph D., D.C.L., President of Dalhousie Univ., President for 1920 of the Conference of Canadian Univs. An account by President Walter C. Murray, of the Univ. of Saskatchewan, of "University Development in Canada" is to be found in the Transactions of the Royal Society of Canada, Third Series, 1922, vol. xvi.]

It is probably not true to say that Canada has evolved a distinctive type of Univ., and yet Canadian higher institutions of learning differ in many ways from the corresponding institutions in the British Isles and in the United States. One might divide Canadian Univs. into groups, determined by the prototype after which each was consciously or unconsciously modelled. In the first group are those which followed closely the Oxford tradition—King's, New Brunswick, Bishop's, Toronto, and some of its federated colleges (University, Trinity, Wycliffe). The Univs. in the second group are those which modelled themselves on Edinburgh, viz. Dalhousie, McGill, Queen's. Laval in Quebec, Laval in Montreal (which has lately changed its name to that of the Univ. of Montreal), and Ottawa have followed closely the forms and tradition of France. The four western provincial Univs. of Manitoba, Saskatchewan, Alberta, and British Columbia, and especially the three last, bear a close resemblance to the State Univs. of the United States. The Univs. which have not been named are perhaps more free from direct imitation of older types.

As the years have gone by, all these institutions, while maintaining individuality and evidences of their original form, have tended to uniformity in many important regards. Thus, they all require four years for the Bachelor (Pass) degree in Arts or in Science. Again, they have a common standard of preliminary education for admission to the course leading to these degrees. This standard is that attained by a satisfactory completion of three years of a High School course superimposed on eight years in the common schools. This standard is called Junior matriculation. If a pupil has successfully completed the fourth year of the High School course in the proper subjects, or passes the equivalent Senior matriculation examination, he can enter the second year and complete the course for the degree in three years. This practically amounts to saying that High Schools or Collegiate Institutes which have a fourth year course give in that year about the same work

as is done in the first year of the Univ. course for the Pass degree. In Ontario the High School Course leading to Junior Matriculation standard covers four years instead of three.

**JUNIOR MATRICULATION.** Students can satisfy the Entrance requirements of the Univs. either by examination or on certificate from a standard High School or accredited Preparatory School or Collegiate Institute or School, provided such certificate shows a Pass in the Required Subjects of matriculation. These required subjects differ somewhat from one Univ. to another. Practically all Univs require for candidates for the B. A. degree the following six subjects (1) English, (2) History, (3) Algebra (through quadratics), (4) Geometry (at least four books), (5) Latin, (6) a second foreign language. There is in nearly every Univ. a seventh subject, it is usually a science (in some cases specified, in others elective), but in many cases a third foreign language is accepted instead.

Where a course in Pure Science is given leading to the degree of B. Sc. the requirements are as above, except that the two foreign languages are French and German.

There is much more variation in the requirements for entrance to the courses in Applied Science or Engineering, but the best schools of Applied Science require in addition to the requirements (1) to (4) of Arts, Advanced Algebra, Advanced Geometry, Trigonometry, Physics, Chemistry, and at least one foreign language.

The curriculum for students of Medicine has been undergoing a change in all the Canadian Schools. At least a year has been added to the length of the course at each Univ. In general the course of study requires 6 years. In Toronto Univ. these must be taken in the Medical School. In some of the other Univs. the 1st year may be taken in any recognized Arts College, in others the first 2 years (which are largely pure science) may be so taken. The grade of scholarship required as preliminary to this 6-year course at all the Schools is that of Senior Matriculation, except at Queen's, where it is Junior Matriculation, and at Montreal Univ. where it is the B.-ès-A. Manitoba requires 2 years of pre-medical Arts and Science preparatory to a five-year course in Medicine.

There has been a similar advancement going on in the standard of preliminary education required of students seeking admission to the study of Law. At all the Schools the Law course proper extends over 3 years. Dalhousie, McGill, and Manitoba require 2 years of Arts before admission to this course, the other Law Schools require, in general, the equivalent of one year of Arts.

A year has been added to the standard of preliminary education required of students entering upon the study of Dentistry. It is now the equivalent of the first year of an Arts course. McGill has increased it to 2 years, and this standard may soon become general. The Univ. of Toronto requires only Pass Matriculation for admission to Dentistry, but prescribes a five-year course for the degree.

**ARTS COURSE.** Speaking very generally, one can say that about one-half of the course for the degree of B. A. is prescribed and the other half elective, but these elective subjects are commonly to be distributed

among certain broad groups of allied subjects in a specified way, varying with the individual Univs. The prescribed work includes English, History, two foreign languages, one of which is usually Latin (British Columbia and Manitoba require only one), Philosophy, Mathematics, and Science. In the case of the B Sc. degree in Pure Science the two foreign languages required are French and German.

A feature of Canadian Univs. which distinguishes them from the typical Univs. of the United States is the provision made for the ambitious student and the student who wishes to specialize during his course for the B A degree. This is accomplished by the provision of the system of Honour courses. In this system a student who shows the necessary aptitude is permitted to take special classes, which in some instances are in extension of the regular classes, and in other cases are restricted to Honour students. In some Univs. the Honour classes are confined to the third and fourth years of the course, in others, as in the case of Toronto, they are given in all four years, and there is also a special Honour matriculation. In general, also, the number of prescribed classes is reduced, so that the student not only goes more deeply into each subject, but specializes to a greater extent than the Pass man is allowed to do. On the completion of an Honour course the student receives a degree with Honours. No small measure of the academic success of Canadian students in post-graduation work in home and foreign Univs. is to be attributed to this system.

By a proper combination of studies a student can complete a combined course for the degree in Arts or Science and that in a professional faculty in a year (in some cases, two years) less than the sum of the years required for each.

**LENGTH OF SESSION.** The Canadian Univs. open about October 1, and close in May or early in June. The average length of the session is  $32\frac{1}{2}$  weeks for all faculties, except those of Medicine and Dentistry, which are 4 weeks longer. Of the  $32\frac{1}{2}$  weeks, 26 are given up to actual lecturing, and the remainder to vacations, examinations, and closing exercises.

**CONSOLIDATION OF THE COLLEGES IN THE MARITIME PROVINCES.** During the last few years a great deal of attention and consideration has been given to this question, which in one form or another is a century-old problem (see article by Murray referred to above). It has come prominently to the fore now because of the impossibility of so many small institutions (mostly sectarian) in a region containing only a million people being able to keep pace with the financial demands of modern education. The Carnegie Foundation for the Advancement of Teaching was invited to send experts to make a survey of the situation. They did so, and made a report, in which they advised that all these institutions should move to Halifax and join with Dalhousie, already there, in forming a strong central University. Each constituent was to maintain its name, identity, individuality, organization, and funds, but give up its examining and degree-granting powers (except in Divinity) to the Univ. The Colleges should not teach the scientific subjects nor those subjects for which there would be a small demand,

which should be given by the Univ. In general, the Colleges should restrict themselves to the Humanities. The Univ. would conduct all professional schools. The Colleges were to be residential. It will be seen that the scheme was something between that of Oxford and that of Toronto. It was a fair inference to be drawn from the report that, if the various institutions in question would get together, and the governments concerned make a grant-in-aid to the central Univ., the Carnegie Corporation of New York would give the scheme very generous aid. Representatives of the educational institutions and interests held many conferences and agreed upon a scheme of consolidation, and the Carnegie Corporation promised a gift of \$3,000,000. At this stage the scheme was halted, for the time being at least, by the refusal in succession of the Univ. of New Brunswick (non-sectarian), St. Francis Xavier's College (Roman Catholic), and Acadia College (Baptist) to enter it. In the meantime, King's College (Anglican) has moved from Windsor to Halifax, and entered into a close association with Dalhousie Univ. (non-sectarian). The students of both institutions are taught as one body by the combined staffs, except in certain freshman classes (and in Divinity). King's holds in abeyance her degree-granting powers (except in Divinity), and the Univ. conducts all exams and grants degrees. On the understanding that King's would raise the sum of \$400,000 for the erection of the necessary residential buildings, the Carnegie Trustees undertook to provide \$600,000 to be used as an endowment for the payment of an instructional staff for the combined students. Mount Allison College (Methodist) will not come to a decision until the recently united Methodist, Presbyterian, and Congregational bodies in Canada have had time to give the matter the fullest consideration. The Roman Catholic dioceses outside of that of Antigonish, in which is St. Francis Xavier's College, have the matter under consideration. There is no degree-granting educational institution in the adjoining colony of Newfoundland, but the various interests there are very favourable toward the general scheme of a confederation of the educational forces of Eastern Canada. They have recently organized a Junior College at St. John's for the first two years of the work for the Arts degree. The Carnegie Corporation has promised a grant-in-aid for a period of five years.

THE ELEVENTH NATIONAL CONFERENCE OF CANADIAN UNIVERSITIES was held at London, Western Ontario, May 30, 31, June 1 and 2, 1927. The subjects discussed were: "Is Canadian Education fulfilling its Purpose?" (Principal Sir Arthur W. Currie's Presidential Address), The Challenge of Modern Education, The Work of the National Research Council, Training of Teachers for Secondary Schools, Use of Tests and Measurements in College Work, Degree Courses in Agriculture, The Place of Music in a University Curriculum, Dental Education, Weakness in English, Decline in the Study of Classics, The Present Standard of Mathematics, Student Health Education, Student Insurance, Modern Languages, The Master's Degree. *Report* can be obtained from the Secretary, Dean G. H. Ling, Saskatchewan.

President for 1928—President L. S. Klinck.

### DEGREES IN DIVINITY FOR STUDENTS BELONGING TO THE ANGLICAN CHURCH IN CANADA

The Church Universities and Theological Colleges in Canada having entered into an agreement to adopt a uniform standard for degrees in Divinity, all such degrees are now only conferred in accordance with Canon X of the General Synod of Canada, and only on examn by a Joint Board, including the Archbishop of Rupert's Land (Chairman), and representatives of the Univs. of King's, Bishop's, and Trinity Colleges, Montreal Diocesan, Wycliffe (Toronto), Huron (London, Ont.), St. John's (Winnipeg), Emmanuel (Saskatoon), St Chad's (Regina), Anglican Theol. Coll of B.C.

### NOVA SCOTIA TECHNICAL COLLEGE, HALIFAX

This institution represents the principal effort of the province in education of University grade. It is supported entirely from provincial revenues. Through a co-operative agreement, a uniform matriculation and a uniform engineering course covering the general work of the freshman and sophomore years is carried out entirely in the Univs. of Acadia, Dalhousie, King's, Mount Allison, St. Francis Xavier, and St. Mary's College. On successful completion of this course, the student proceeds to the Technical College without examn. for the professional work of the last 2 of the 4 yrs.' course. Here the studies are differentiated and the student elects either Civ., Elec., Mech., or Mining Engineering. The degree given is that of B.Sc. The Technical Coll. confines its attention entirely to the work of the junr. and senr. yrs. It is equipped principally for teaching the engineering courses and commercial testing of industrial materials and natural resources, and incidentally for scientific research. Tuition fees \$75 p.a. Twenty county scholarships of \$75 p.a. are available for Nova Scotians. The buildings and equipment represent a provincial investment of about \$600,000. [*Contributed by the Department of Educn., N.S.*]

### MARINE BIOLOGICAL STATIONS

Under the control of the Minister of Marine and Fisheries through the Biological Board of Canada, two Atlantic Stations at St. Andrews, N.B., and Halifax, N.S., and two Pacific Stations at Nanaimo and Prince Rupert, B.C., are open to duly qualified and recommended university graduates from June to Sept. The Halifax Station, established in 1925 for educational and experimental work in connexion with fisheries, co-operates with Dalhousie Univ. and the Technical College. The more fundamental research is carried on at St. Andrews and at Nanaimo. Publications: Annual Prospectus and series of Reports, Bulletins, studies and popular leaflets. Directors: Prof. A. G. Huntsman of Toronto (Atlantic) and Dr. W. A. Clemens (Pacific).

### THE CARNEGIE FOUNDATION FOR THE ADVANCEMENT OF TEACHING

The object of the Foundation, which was established in 1906 with resources which now amount to 30 million dollars, is to provide retiring allowances and pensions, and, "in general, to do and perform all things necessary to encourage, uphold, and dignify the profession of the teacher and the cause of higher education." It operates both in the U.S.A. and in Canada. The following classes of persons are eligible for retiring allowances: (1) A person in an institution on the associated list who (a) is 65 years of age and has served not less than 15 years as professor, or not less than 25 years as instructor or as prof. and instr., or (b) has served 25 years as prof. or 30 years as



instr. or as prof. and instr., and who is shown by medical examn. to be entirely unfitted by disability for continuing the work of teacher; (2) a widow who has for 10 years been the wife of any teacher of class (a) or (b). The direction of the Foundation is entrusted to a board of 25 trustees, mostly university and college presidents. The offices of the Foundation are at 522 Fifth Avenue, New York City.

The list of associated institutions includes ALBERTA, BRITISH COLUMBIA, DALHOUSIE, MCGILL, QUEEN'S, and TORONTO. Up to June 1927, 1403 allowances had been granted, including 74 in Canada and 5 in Newfoundland.

In addition to its work in connexion with the payment of pensions the Board of Trustees has undertaken the issue of various publications and their free distribution. Among these are bulletins on Medical Education in Europe, Education in the Maritime Provinces of Canada, Games and Sports in British Schools and Universities, and the Quality of the Educational Process in the United States and Europe.

#### NATIONAL COUNCIL OF EDUCATION

THE NATIONAL COUNCIL OF EDUCATION, Canada, was organized at a Conference on Education in relation to Citizenship held in Winnipeg in 1919. With the co-operation of Universities and Departments of Education the Council is developing a Bureau of Education, and has organized a system of National Lectureships whereby eminent lecturers are brought from Great Britain to Canada. The Bureau facilitates exchange of information between the provincial departments of Education, the diffusion in Canada of ideas and information from outside the Dominion and *vice versa*. Triennial Conferences on Education are held, the next of which will be in Vancouver in 1931. The Executive Secretary's address is Boyd Building, Winnipeg.

CANADIAN STUDENTS IN THE UNIVERSITIES OF THE UNITED KINGDOM, v. Appendix XXI.

SCIENTIFIC AND INDUSTRIAL RESEARCH, v. Appendix XXIII

STATISTICAL TABLES relating to Canadian Universities and Colleges are published by the Dominion Bureau of Statistics, Ottawa, in its Annual Survey of Education in Canada, price 50 c.

# ACADIA UNIVERSITY, WOLFFVILLE, NOVA SCOTIA

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## PROFESSORS, LECTURERS, ETC.

<i>Biology</i>	[C F Myers Prof	Thomas, F S , M A. Tor.
Perry, H G , M A Harv		Asst Prof
Roscoe, Muriel V , Ph D.		MacLaurin, L , Ph D Chic
	Radcliffe Prof	Asst. Prof
Bayne, P. M., M A	Asst Prof	Logan, J D , Ph D Harv
<i>Chemistry</i>		Spl Lectr in Canadian Lit
Hill, D U , M.A , Ph D Yale Prof		Graves, Mary E , B L
Chester, W. S., M A Tor		Instr in Public Speaking
	Asst Prof	<i>Geology</i>
De Long, W , M Sc , Ph D Tor		Bancroft, M. F., M.A. Yale Prof.
	Asst Prof	<i>German</i>
<i>Classics</i>		Ross, Roy, M A. Yale Prof
Thompson, W H , jun , M A ,		
Ph D Yale	Barss Prof	<i>History</i>
Havelock, E. A., M A Ox		[Asst Prof.
	Asst Prof.	Cross, H B F , M A. Harv
<i>Economic Science</i> , v also Hist		Sharman, Florence M , M A
Balcom, A. B , B Sc , M A Harv		Instr. (H and Economics).
	Wallace Prof	Milner, W , LL D
<i>Education and Psychology</i>		Spl. Lectr in Canadian Hist.
Mills, H C , M A Harv		<i>Household Economics</i>
Dean of School of Ed		McNally, Frances, B.S , M.A
and Prof		Head of School of H E.
Hancock, T A., M A , Ph D. Clark		O'Brien, Clarabelle, B Sc Instr
Prof.		Morton, Edith, B Sc Instr
Abel, W H , M A Swath		<i>Library Science</i>
	Prof. of Art.	[Instr.
<i>Engineering</i>	[I. Curry Prof	Ingraham, Mary Kinley, M.A.
Wheelock, F E , M A , Ph D Yale		<i>Mathematics</i>
Sutherland, A , B Sc	Prof	[White Prof
Steeves, R T , B A		Jeffery, R L , Ph D Cornell
		Hamer, R , Ph D Calif
<i>English Lang. and Lit</i>		Asst. Prof.
Rhodenizer, V B., M.A , Ph D		<i>New Test. Lang. and Lit.</i>
Harv.	Prof.	[Prof.
		De Wolfe, H T , B A., D D., LL.D.

*Old Test. Lang. and Lit.*  
Hutchins, W. N., M.A., Ph.D.  
Chic. G. P. Payzant Prof.

*Osteology and Physiology*  
De Witt, C. E. A., B.A., M.D.  
McGill Instr.

*Physical Training* [Director  
Osborne, W. T., M.A. Corn  
Kelley, F. C. Instr.

*Physics* [Alumni Prof.  
Haley, F. R., M.A. Harv.

The Provost I Curry Prof.  
Evans, E., M.A. Tor. Asst. Prof.

*Romance Languages*  
Massey, E. R., M.A. Prof  
Hilborn, H. W., M.A. Tor.  
Assoc. Prof

*Theology and Philosophy*  
Spidle, S., B.D., Ph.D. Clark  
Prof  
MacDonald, J. H., C.B.E., D.D.

Prof of Church Hist and  
Bible Lit

## GENERAL INFORMATION

Founded in 1838 by the N.S. Baptist Educational Society, Acadia College was incorporated in 1840 by Act of the N.S. Legislature, with the powers of a University. In 1896 an endowment of \$100,000 for the Theol. Dept. was received under the will of G. P. Payzant. The Board of Governors is appointed by the Baptist Convention of the Maritime Provinces, but the students are subject to no religious tests

**LIBRARY.** 65,000 vols. **MUSEUMS** Biol, Ethnol, Geol., Hist. **LABORATORIES** Biol, Chem, Geol, Physics, Engineering **OBSERVATORY** Meteor. and Astron

**DEPARTMENTS.** Arts and Sciences, Theology, Applied Science, Household Economics, Music.

**DEGREE COURSES.** 4 yrs.—B.A., B.A. (Theol.), B.Sc., B.Sc. (Hd.Ec.); 3 yrs.—B.Mus.; 1 yr. (graduate study)—M.A., B.D. The B.Sc. Engineering courses enable graduates to enter the 3rd year classes of McGill Univ. and N.S. Tech Coll. Some of the B.A. and B.Sc. courses enable graduates to enter the 2nd yr. of the Dalhousie Law School, Halifax, and the Med. Dept. of McGill Univ., respectively.

**FEES for tuition:** in Arts and Sc. or Theol., \$112 (board provided at \$7 to \$7.50 per week, including room), in Appl. Sc. (2 yrs.), \$220. Lab. fees extra, about \$30.

**RESIDENCE.** College hostels provide accommodation for 70 men and 128 women.

**PUBLICATIONS.** *Bulletin*, 25 cents p.a.; *Calendar*, number issued in July.

## THE YEAR 1927-28

**BENEFACTIONS.** \$239,000.

**NEW BUILDINGS.** New Science Hall for Biology and Geology.

**EXTRA-MURAL WORK.** Correspondence-study Department with 30 students.

**HONORARY DEGREES.** *D.D.*—W. E. Boggs. *D.Litt.*—J. C. Carlile, N. M. MacTavish. *D.C.L.*—C. A. Eaton, A. A. Shaw, H. P. Whidden.

**STUDENTS.** Full-time total, 510, including 24 graduates.

**DEGREES.** B.A., 43; B.Sc., 11; B.Sc.H.Ec., 10; B.D., 1; B.A. (Th.), 7; B.A. (Mus.), 1; M.A., 7.

# UNIVERSITY OF ALBERTA, EDMONTON

VISITOR—THE LIEUTENANT-GOVERNOR OF THE PROVINCE.

CHANCELLOR—HON A C RUTHERFORD, B A , B C L , LL D

CHAIRMAN OF BOARD OF GOVERNORS—HON H HARVEY, B A , LL D ,  
Chief Justice.

PRESIDENT—HENRY MARSHALL TORY, M A , D.Sc , LL D

REGISTRAR—A E OTTEWELL, M A

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## PROFESSORS, LECTURERS, ETC.

### *Accountancy*

Thompson, J C , C A      Lectr  
Harris, G. G , C.A.      Instr

*Agricultural Engineering* [Prof  
Smith, J MacG , B S A Man

*Agriculture Field Crops*  
Newton, R , B.S.A McG , M Sc ,  
Ph D Minn.      Prof  
Fryer, J R , M A. Tor  
Assoc. Prof

*Agriculture, History of*  
Howes, E A , B S A , Tor D Sc  
Laval Dean of Fac. of Agric.

*Agriculture . Horticulture*  
Harcourt, C , B S.A Tor.      Lectr.

*Agriculture : Soils*  
Wyatt, F A , B S A. Utah, M S ,  
Ph D Ill      Prof.  
Newton, J. D , B S A McG ,  
Ph D Calif.      Assoc. Prof.

*Animal Husbandry*, v. also  
Dairying and Vet  
Sackville, J P , B.S A Tor , M.S.  
Iowa      Prof  
Bowstead, J E , M S Wisc.  
Assoc Prof  
Sinclair, R D , B S A Assoc Prof

*Anatomy* [Prof.  
Revell, D. G., B.A , M.B Tor.

Shaner, R. F , Ph D Harv Prof.  
Greene, E , M D., C M McG.,  
F R C S Edin , F A C S  
Asst Prof.

*Architecture*  
Burgess, C S , A R I B A      Prof

*Bacteriology*, v Med.

*Bio-Chemistry*  
Collip, J. B , M A , Ph D Tor ,  
D Sc , M D      Prof  
Scott, J. W., M D , C M McG.  
Lectr.  
[Prof

*Botany*  
Lewis, F J , D Sc Liv , F L S  
Moss, E. H., M A , Ph D. Tor.  
Asst Prof.  
Dowding, E. S , M Sc.      Lectr

*Chemistry*  
Lehmann, A. L F., B S A. Tor ,  
Ph D. Leip      Prof  
Walker, O J , B A. Sask , M A.  
Harv., Ph.D McG  
Assoc Prof.

Sandin, R., M Sc., Ph.D. Chic.  
Assoc. Prof  
Boomer, E H., B.A. B Col , M.A ,  
Ph D McG      Asst Prof.  
Stover, N. M , M.Sc , Ph D. (Ill.)  
Lectr.

### *Classics*

Alexander, W. H., M A. Tor.,  
Ph.D. Calif.      Prof.

- Misener, Geneva, M A. Qu., Ph.D. Chic. Prof.  
 Hardy, W G, M A. Tor, Ph D Chic. Assoc Prof.  
 Wallace, W P, B A Tor Instr  
*Dairying*  
 Marker, C P, LL.D. Prof  
*Dentistry* [Asst. Prof.  
 Bulyea, H E, D M D Harv  
 Craig, W P, M A Wash and Jeff, D D S (Northwestern) Lectr.  
 Gilchrist, H A, D D S Northwn Lectr  
 Hamilton, W S, L D S, D D S Tor Instr  
 Hope, J H, L D S, D D S Tor „  
 Sneddon, S. M, D D S Instr  
 Strong, O F, D D S Instr.  
 Roberts, J G, L D S, D D S Tor Instr  
 Mercer, F S, L D S, D D S Tor Instr  
 MacCrostie, H, L D S, D D S Tor Instr  
 Mason, A B, D D S Penn Instr  
 Bradley, R W, D D S McG Demr  
 Janes, L. V, D. D S Chic. Demr  
 Thurston, G B, D D S. Demr.  
 Gemeroy, G A, L D S, D D S Tor Demr  
*Drawing and Descr. Geom.*  
 Adam, J., M A. Assoc Prof.  
*Economics, v Pol Econ*  
*Engineering, Civil & Municipal*  
 Wilson, R S L, B Sc. McG. Prof  
 Robb, C. A, B.Sc. McG., M S. Mass Inst Tech Prof.  
 Morrison, I F, B S (M I T) Prof.  
 Webb, Ii R, M Sc Lectr.  
 Morrison, C F, M Sc McG Lectr  
*Engineering, Electrical*  
 MacLeod, H. J, B.Sc. McG, Ph.D. Harv., M.Sc. Prof.  
 Morgan, S. C., B Sc Qu, M Sc. Asst. Prof.  
*English*  
 Broadus, E K, M A Chic., Ph D. Harv. Prof.  
 Gordon, R. K., B.A. Ox, M.A., Ph D. Tor Prof  
 Jones, J T., M A Alta, B A Ox Asst Prof  
 Wiles, R M, B A Dal, M A Harv Lectr  
 Dickson, H H L, B A Instr.  
*Entomology* [Prof.  
 Strickland, E. H., M Sc. Harv.  
*French and Ger., v Mod Langs.*  
*Geology*  
 Allan, J. A, M Sc. McG, Ph D Mass Inst. Tech Prof  
 Warren, P. S., B A., Ph D. Tor., A.R.C.S. Lond. Assoc. Prof.  
 Rutherford, R L, M.Sc, Ph D. Wisc Asst Prof.  
*History* [Prof.  
 Burt, A L, B A Tor, M A Ox  
 Long, M H., B A McM., M.A. Ox. Assoc. Prof.  
 Murray, Jean, M A Tor Instr  
 Sterling, W, B A Tor Asst  
*Household Economics*  
 Patrick, Mabel, B A. Tor, M A Col Director, Lectr.  
 McIntyre, E H, B Sc Instr.  
 Shaver, Ann, B A. Tor Instr  
*Law*  
 Weir, J. A, B A. Ox, LL B Sask. Prof (Dean of Faculty).  
 Ford, Hon Mr Justice F, D C L Tor Hon Prof  
 Nielson, S, B A., LL.B. Lectr.  
 Tweedie, Hon. Mr. Justice Special Lectr.  
 3 Sessional Lectrs.  
*Mathematics*  
 Sheldon, E W., M A. McG, Ph D Yale Prof.  
 Campbell, J. W., M A. Qu., Ph D. Chic. Prof.  
 Cook, A. J., B.Sc., M.A. Harv. Asst. Prof.  
 . . . Asst Prof.  
*Medicine, v. infra*  
*Mining Engineering*  
 Pitcher, N. C., B.Sc. McG. Prof.

Cameron, A. E., M.Sc. McG., D.Sc.  
M.I.T. Assoc. Prof.

*Modern Languages*

Kerr, W. A. R., M A Tor, Ph D  
Harv, O I P. (France)  
Prof. and Dean of Fac.  
(Arts and Sc.).

Coar, J. F., M.A., Ph D Harv  
Prof (German).

Sonet, E., B ès L Lyons, M A,  
D ès L (Rennes)  
Prof. (French).

Owen, F., M A. Tor., Ph.D. Chic.  
Assoc. Prof (Ger ).

Pelluet, A P. Asst. Prof (French)  
de Savoye, H, B ès L Paris, LL B,  
Off. d'Acad. Lectr (French).

Aloysius, F S C, M A Tor.  
Lectr (Spanish)

*Philosophy*

MacEachran, J. M., M A Qu,  
Ph D Leip Prof.

Macdonald, J., M A., D.Litt.  
Edin Assoc Prof.

Lazerte, M. E., B.A. Tor, M A,  
Ph D Chic Assoc Prof

Philip, F S C, M A Tor, Ph D  
C.U A Asst Prof

*Physics*

Boyle, R. W., M Sc., M A, Ph D.  
McG.

Prof. and Dean of Fac  
(App. Sc.).

Smith, S, M A, B Sc Ox Prof  
Lang, R. J., B A McM, M A,  
Ph.D. Tor. Assoc. Prof

Nichols, L. H, B A. McG., M A.  
Lectr

Taylor, G. B, M.Sc Lectr.

*Physiology and Pharmacology*

Downs, A. W., M A Phila, M D  
Penns, D Sc. McG Prof

Eddy, N. B, M D. Corn.  
Asst. Prof.

Quigley, J. P., B.Sc Syrac., M.Sc.  
Minn. Lectr.

*Political Economy*

MacGibbon, D A, M A. McM.,  
Ph D. Chic. Prof.

Day, J. F., B.A. Tor., M.A Chic.  
Lectr.

Cassels, J M., B.A. Ox. Lectr.

*Veterinary Science*

Talbot, P. R, V S Tor, M.D.V.  
Chic Specl Lectr

*Zoology*

[Assoc. Prof  
Rowan, W., M Sc Lond, F.Z.S  
Hart, J L, B A Tor Instr

**Medicine** (for subjects of first  
2 yrs.—Anat, etc, v. *supra*)

*Bacteriology and Hygiene*

Rankin, A C, C M G, M D,  
C M, D P H McG, M R C S  
Prof. and Dean of Fac.

Shaw, R. M., B A Dal, M.D,  
C.M, D P H. McG.

Assoc Prof  
Harris, L. C., M.D., C.M. McG

Demr  
*Dermatology* [Lectr.

Orr, H, O B E, M.B., D.P.H Tor.

*Gynæcology and Obstetrics*

Conn, L. C., M D, C M McG.,  
F.A.C S Prof.

Harrison, J. D, M D, C M McG,  
F A C S. Assoc Prof.

Baker, J. O., M D, C M. Qu.  
Asst. Prof.

Holmes, C U, M B Tor. Instr  
Day, Allan, M B. Tor. Demr.

*Medicine and Clinical Medicine*

Pope, E. L., B A. Qu, M.D, C.M.  
McG, M.R.C.S., M.R.C P.

Prof.  
Jamieson, H. C., M B. Tor.

Assoc. Prof.  
Bell, I R., B.A, M B. Tor.

Asst. Prof. (Therap.).  
Hurlburt, C. W, M.B Tor. Lectr.

Scott, W. H, M D, C.M. McG.  
Lectr.

3 Instrs.

<i>Ophthalmology</i>	[Lectr.	Wilson, W. A , M.D , C.M. McG , F.A.C.S.	Asst Prof.
Wells, R. B., M.B. Tor., F.A.C.S.			
<i>Pathology</i>	Lectr.	Hepburn, H. H., M.D., C.M. McG , F.R.C.S. Edin., F.A.C.S.	
Ower, J J , B A , M D , C M. McG			Asst. Prof.
Prof and Provincial Serologist		Mewburn, F. H. H., B.Sc., M.D , C.M. McG.	
Vango, H. M., M.D., C.M. McG.			Asst. Prof ( <i>Orthop</i> )
	Asst. Prof.	Smith, E C., M.D , C M McG.	
2 Demrs			Asst Prof
<i>Pediatrics</i>		6 Instrs	
Leitch, D. B., B A , M B. Tor.		<b>Industrial Laboratories</b>	
	Lectr	Kelso, J. A , M Sc Qu.	Director.
<i>Pharmacology, v Physiol</i>		Tomlinson, H. O., B.Sc.	Asst
<i>Pharmacy and Mat Med</i>		<b>Industrial Research Profs.</b>	
Dunn, F A S , Ph C. Tor , M P S		Stansfield, E , M Sc Manc	
Gr. Bn.	Prof		(Fuels).
Matthews, A W , B Sc. Phm		Clark, K. A , M A McM., Ph.D.	
	Asst Prof	III	(Road Materials)
<i>Psychiatry</i>		<b>Physical Education</b>	
Cook, E. H., M B., B S. Durh		.....	Director.
	Lectr	Bakewell, E , B A	Asst Dir.
<i>Public Health</i>		<b>Correspondence Courses</b>	
Bow, M R , B A , M D , C M Qu , D P H Tor	Spl Lectr	MacKenzie, D S	Director
<i>Surgery and Clinical Surgery</i>		<b>Department of Extension</b>	
Mewburn, F II , M D , C M , LL D McG	Prof	Corbett, E A , M A McG	
Gray, G C , M.B. Tor , F A C S.			Director
	Asst Prof.	Montgomery, Jessie, B A.	Libn
Munroe, A R , M D , C.M McG , F A C S	Asst Prof	McAllister, J. W., B.S.A., M.Sc	
			Lectr.

## AFFILIATED INSTITUTIONS

ST STEPHEN'S COLLEGE, Theological College of the United Church of Canada, is situated on the University Campus. Principals—A. S. Tuttle, M.A., D.D., Mt. All, Prof. of Philos. of Religion; J M. Millar, M.A., D D. Other Profs. . A. D. Miller, M A. Tor., B.D. Vict, Hebrew, etc; Cloy Jackson, M.A. Tor., B.D. Vict., Ph.D. Chic., New Testament.

ST. AIDAN'S COLLEGE and Hostel (Anglican)—affiliated 1919. Warden—Rt Rev. H. A. Gray, D.D., LL.D., Bishop of Edmonton.

ST. JOSEPH'S CATHOLIC COLLEGE (Arts). Rector—Rev. Brother Rogatian, F.S.C. Affiliated to the Univ. in May 1926 as an Arts Coll. working under the authority of the Senate; occupies a site on the Univ. Campus on which a combined residential and teaching building has been erected.

THE PROVINCIAL INSTITUTE OF TECHNOLOGY AND ART, Calgary, is under the authority of the Department of Education. Affiliated May 13, 1926. Principal—W. G. Carpenter, B.A , LL.D

## GENERAL INFORMATION

Telegraphic address—VERA (A.B.C. Code).

The University, created by Act of the Provincial Legislature, 1906, originally consisted of a Chancellor, Vice-Chancellor, Senate, and Convocation. By amendment the office of President was created 1907, and a Board of Governors 1910, the latter being given financial and administrative control, while the Senate was restricted to educational supervision. Student residences, Athabaska, Assiniboia, and Pembina Halls, were opened in 1911, 1912, and 1914 respectively, while the main teaching and administrative building was completed in 1915. Classes began September 1908. In 1912 extension work, conducted from the beginning, was departmentalized under a Secretary. In the same year a Faculty of Law was created. Subsequent expansion involved the establishment of Faculties of Applied Science and of Medicine, 1913, Faculty of Agriculture, 1915; courses in Pharmacy and in Dentistry, 1914 and 1917 respectively; in Household Economics, 1918; in Commerce and in Public Health Nursing, 1921. In 1919-20 the extraordinary increase in the number of medical students necessitated the construction of a new Medical Building. In the same session the creation of the office of Director of the School of Pharmacy completed the evolution of the School from a Department under the Faculty of Medicine to an independent unit. The Provincial Legislature has established a close relationship between the Univ. and the Professions, and the Senate now has jurisdiction over the educational standards of Architects, Chartered Accountants, Dentists, Engineers, Land Surveyors, Lawyers, Pharmacists, Physicians and Surgeons, Registered Nurses, Optometrists, and Veterinary Surgeons.

The University grounds, 637 acres, beautifully situated on the wooded south bank of the Saskatchewan, include provision for the accommodation of affiliated colleges and afford ample room for expansion. Edmonton is a city of about 67,000 inhabitants, the capital of the Province of Alberta.

**LIBRARY**, 30,000 vols. **LABORATORIES** for all scientific courses; museum; herbarium; farm; agricultural experimental plots.

**FUEL TESTING LABORATORY** For the detailed study of the chemical and physical properties of Alberta coals; also for investigating industrial problems such as coking, carbonizing, briquetting, combustion, storage and purification of coal.

**RESEARCH LABORATORIES OF DEPARTMENT OF FIELD CROPS.** These laboratories have been developed during the past six years for the investigation of special problems underlying crop production in Western Canada. Progress has been greatly facilitated by grants-in-aid of special researches received from the National Research Council. The programme of investigation covers such important problems as the nature of resistance to frost, drought, and disease, methods of eliminating false wild oats, and factors affecting the milling and baking qualities of wheat.

**FACULTIES** Arts and Sciences (including Household Economics, Pharmacy and Commerce); Applied Science (Civil, Mining, Chemical, and Electrical Engineering and Architecture); Medicine (including Dentistry and Nursing); Law; Agriculture.

**MATRICULATION** exams are conducted in April and Sept., under control of High School and Univ. Matric. Examns. Board of the Province. Equivalent exams by recognized authorities in the British Dominions are accepted *pro tanto* for admission.



**DEGREE COURSES.** 4 yrs.—B.A., B.Sc. in Arts, B.Com, B.Sc. in Household Ec, in Engin (Civ., Elec., Chem, or Mining), in Archit, or in Pharmacy, 3 yrs (after qualifying in a Provincial Sch. of Agr.)—B.H Ec (in Household Econ), B.Sc in Agric; 6 yrs.—M D, 5 yrs.—B Sc. in Nursing, LL B., D.D S. Combined B.A. and B.Sc. in Agric—6 yrs.; B.A. and B.Sc. in Applied Sc.—6 yrs.; B.A. and M D.—8 yrs; B A. and LL B—6 yrs. The Agric. course is preceded by preliminary training at one of the Provincial Agric. Schools

A Bachelor may obtain the M.A. or M Sc by 1 yr. of advanced study or investigation or the B Ed by 2 yrs. of advanced study. The D Sc is conferred for distinction in original research in the field of science. The B D is open to B A. students of affiliated Colls. on completion of approved courses. The LL.D. is honorary.

**OTHER COURSES** For Licence in Pharmacy; Correspondence Courses for Teachers (Senr. Matricn. subjects); Summer Session in co-operation with the Summer School for Teachers conducted by the Provincial Dept. of Educn., 3 mos' course in P H. Nursing for Registered nurses; Provincial Dairy School short courses; 3 yrs' course for qualification of Regd. Nurse.

A system of **EXCHANGE LECTURES** is carried on in co-operation with Manit, Sask, and British Columbia Universities.

**FEES**, tuition per session Arts (including 4 yrs.' degree courses in Pharmacy and Household Economics and 1st yr Commerce), \$75 to \$85, subsequent years B Com, \$90 to \$100, Appl Sc, \$75 to \$125, Law, \$100 to \$110; Med, \$130 to \$190, Dent, \$130 to \$210, Agric (including 3 yrs' course Household Economics), \$50 to \$60. Licentiate Pharmacy, \$90 to \$120 Students' Union, \$10, Med Service, \$5, Library, \$5.

**RESIDENCE, ETC** 4 Halls of residence (including 1 belonging to an affiliated Coll.), with accommodation for 525. Fees for room and board for the session, \$259; board only, \$25 per month Social life is under supervision of Provost, a Univ officer All undergraduates are members of Students' Union.

**UNIVERSITY EXTENSION** work includes lectures at local centres, publication of material for debating and public discussion, travelling and packet libraries, and lantern slide and cinema services.

**PUBLICATIONS** *Calendar* (June), *Press Bulletin*, weekly, by Dept. of Extension, *The Trail*, quarterly, by Alumni Assocn; *The Gateway*, weekly, *The Evergreen and Gold*, annually, by students.

## THE YEAR 1927-28

**BENEFACTIONS** Bursary of 11,000 f., gift of the French Govt. for study in France.

**NEW BUILDINGS** Extension to University Hospital for accommodation of orthopaedic patients.

**EXTENSION WORK** Lantern slides sent out, 1774 sets; films, 474 sets; lectures, 309; travelling libraries, 228, radio lectures, 268, University Week or Farm Young People.

**VISITS OF TEACHERS TO AND FROM OTHER UNIVS.** Prof. G. S. Sedgewick, Head of the Dept of English, Univ of British Columbia, Prof. F Allan, Head of the Dept of Physics, Univ. of Manitoba; Prof. J. A. MacDonald, Head of

the French Dept., Univ. of Saskatchewan ; Dean E. A. Howes of the Faculty of Agriculture to the Univs. of Saskatchewan and Manitoba.

DEATH. Hon. Nicholas Dubois Dominic Beck, Justice of the Supreme Court of Alberta, Chancellor of the University (1926-27).

HONORARY DEGREES. *LL.D.*—The Hon'ble J. E. Brownlee, Premier of Alberta ; H. M. Tory, retiring President of the Univ. of Alberta, President of the National Research Council.

STUDENTS. Full-time : total, 1234, including 106 graduates. Part-time : total, 302.

DEGREES. B.A., 60 ; B.Sc. in Arts, 13 ; B.Com., 6 ; B.Sc. in Pharmacy, 1 ; B.Sc. in Household Economics, 8 ; B.Sc. in Civil Engineering, 2 ; B.Sc. in Electrical Engineering, 10 ; B.Sc. in Mining Engineering, 4 ; B.Sc. in Chemical Engineering, 3 ; B.S.A., 3 ; B.Sc. in Agriculture, 9 ; *LL.B.*, 14 ; *M.D.*, 17 ; *D.D.S.*, 7 ; B.Sc. in Nursing, 1 ; *M.A.*, 13 ; *M.Sc.*, 15 ; *B.Educ.*, 2 ; *B.D.*, 1.

# UNIVERSITY OF BISHOP'S COLLEGE, LENNOXVILLE, QUEBEC

CHANCELLOR—F. E. MEREDITH, K C , D C L , LL D

VICE-CHANCELLOR—Rev. A. H. MCGREER, O.B.E., M.C., M.A. Ox.,  
D.D., Principal of the College and Dean of Arts.

REGISTRAR—J. C. STEWART, M.C., Bursar and Secy. of the College.

FACULTY OF ARTS—DEAN, THE PRINCIPAL.

FACULTY OF DIVINITY—DEAN, Rev. P. CARRINGTON, M.A. Camb,  
Harold Prof. of Divinity

## PROFESSORS AND LECTURERS

Boothroyd, E. E., M.A. Camb, D.C.L., Prof. of History, Vice-Principal.  
Burt, H. C., M.A., T.C. Tor., Prof. of Philos. and Econ., Lectr. in  
Church Hist.

Call, F. O., M.A., D.C.L., Prof. of English and Mod. Langs., and  
Librarian.

Kuehner, A. L., M.A. Queen's, Lectr. in Natural Science.

Preston, A. W., M.A. Edin., B.A. Oxon., Lectr. in Classics

Raymond, W. O., M.A., Ph.D., Prof. of English

Richardson, A. V., M.A. Camb., Prof. of Maths

Rothmey, W. O., M.A., B.D., Ph.D., Prof. of Education.

Vial, F. G., M.A., B.D., D.C.L., Warden of the Divinity House,  
Mountain Prof. of Past Theol.

Sauerbrei, C., B.A., L.S.T., Lectr. in Hebrew and Old Test.

## GENERAL INFORMATION

The College, founded in 1843, was in 1853 by Royal Charter constituted a University with power to confer degrees. It is administered by a Corporation consisting of the Anglican Bishops of the Province and Trustees and Council appointed by them jointly. The Bishops of Montreal and Quebec are President and Vice-President respectively of the Corporation and Visitors of the College.

The College provides ordinary and Honours courses for the B.A. degree, covering 3 yrs., and a 2 yrs.' course for the L.S.T. Divinity is a compulsory subject in each of the years of the ordinary course. Terms kept in other Univs. may be counted up to 2 yrs. Clergymen of the Dioceses of Quebec and Montreal may proceed to the B.A. by examns. without residence if of 6 yrs.' standing, and on a reduced period (1 or 2 yrs.) if of 4 or 2 yrs.' standing.

Examns. are conducted for degrees in Music.

FEES. For tuition, \$125 p.a. for an Arts student; \$75 p.a. for a Divinity student; board and furnished lodging with heating and lighting, \$325 p.a. PUBLICATION: *Calendar* (Oct.).

THE YEAR 1927-28 Honorary degrees. D.C.L.—Prof. E. E. Boothroyd, Hon. T. Chapais, Hon. R. Lemieux, Rt. Rev. D. T. Owen. Number of Students. Full-time, total, 156. Degrees: B.A., 36; M.A., 2; L.S.T., 7; B.D., 1; D.D., 1.

# THE UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER

VISITOR—THE LIEUT.-GOVERNOR OF THE PROVINCE.

CHANCELLOR—R E McKECHNIE, M D , C M , LL D., F A C S

PRESIDENT—LEONARD S. KLINCK, B S A Tor., M.S.A., D.Sc. Iowa S.C.,  
LL D. West Ont

REGISTRAR—S W. MATHEWS, M A Qu

LIBRARIAN—J. RIDINGTON

## PROFESSORS, LECTURERS, ETC.

### *Agriculture, v. infra*

#### *Bacteriology*

Hill, H W., M B , M.D., D P H  
Tor , L M C C Prof  
Wilson, Frieda L , M A B Col  
Instr  
1 Asst.

#### *Botany*

Hutchinson, A H , M A McM ,  
Ph D Chic Prof.  
Davidson, J., F.L S , F R S E.  
Asst Prof.  
Dickson, Frank, B.A. Qu  
Assoc. Prof  
3 Assts

#### *Chemistry*

Clark, R H., M A. Tor., Ph D.  
Leip. Prof.  
Archibald, E H , B Sc Dal , A M ,  
Ph.D. Harv , F.R S E and C  
Prof. (Anal. C )  
Seyer, W. F , B A , M Sc. Alb ,  
Ph D McG Assoc. Prof  
Marshall, M J , M Sc McG , Ph D  
Mass Inst Tech Assoc Prof  
Harris, J Allen, M A , Ph D  
Asst Prof  
Ure, W , M A Sc B Col  
Asst Prof  
Allardyce, J , M A B Col Instr  
Stedman, D F , B A Sc B Col ,  
Ph.D. Lond Instr  
7 Assts.

### *Classics*

[Prof.  
Robertson, L F , M A McG  
Todd, O J , Ph D. Harv.  
Prof of Greek.  
Logan, H T , B A McG , M A  
Ox Assoc Prof  
Riddehough, G B , B A B Col ,  
M A Calif Instr  
3 Assts

### *Dairying, v Agric.*

*Economics, Sociology, & Polit Sc.*  
Boggs, T H , B A Ac , M A ,  
Ph D Yale Prof  
Angus, H F , B A. McG., B C L.,  
M A. Ox Assoc. Prof.  
Beckett, S E , M A Qu  
Asst Prof.  
1 Asst.

### *Education, v also Philosophy*

Weir, G M , B A McG , M A  
Sask , D Pæd Queen's Prof.  
16 Part-time Lectrs

### *Engineering, Civil, & Surveying*

Duckering, W. E., A.B., B.S. in  
C.E., C.E. Wash. Prof.  
Matheson, E. G , B A.Sc. McG.,  
M E.I.C , M Am S C E  
Assoc Prof.  
Wilkin, F A , B A Sc McG.  
Asst. Prof.  
Finlay, A. H., B.A.S.C. B Col.,  
M.S in C.E. Ill. Asst. Prof.

Lighthall, A, B Sc. McG.

Asst Prof

Stuart, A. G., B Sc. McG. Instr.  
1 Asst.

*Engineering, Mech. & Elec.*

Vickers, H., M.E. Liv, M.Sc., Ph.D.  
Birm. Prof.

Vernon, F W, B Sc Lond,  
Wh Sch, A M I Mech E,  
A F R A S Assoc. Prof

Letson, H. F. G, M.C, B Sc.  
B Col, Ph D. (Eng.) Lond,  
A.M.I Mech E. Asst. Prof

Stacey, L. B, B A Sc. B Col  
Asst Prof

Smith, G S, M A Sc McG Lectr  
Bell, J F, O B E, Eng. Capt.

R N, M E I C. Instr  
1 Asst

*English*

Sedgewick, G. G., B A. Dal., Ph.D  
Harv Prof

MacDonald, W. L, B A Tor., M A.  
Wisc., Ph D. Harv. Assoc Prof.

Wood, F G C, B A McG, A M  
Harv. Assoc. Prof.

Larsen, Thorleif, M A Tor, B A.  
Ox Assoc. Prof

Walker, F C, B A N Brun, A M,  
Ph D. Harv. Assoc Prof.

Bollert, Miss M L, M A Tor.,  
A M. Col \* Asst. Prof

Wilcox, F. H., A.B., Ph.D. Calif  
Asst. Prof.

Child, P A, B A Tor, A M Harv  
Asst. Prof

Roberts, C. G D, M A, LL D.  
Specul Lectr.

3 Assts.

*Forestry*

[Prof.  
Christie, H. R., B.Sc.F. Tor.

Knapp, F. M, B S F. Syracuse,  
M.S.F. Wash. Asst. Prof.

*French, v Mod. Langs.*

*Geology and Geography*

Brock, R. W., M.A., LL.D. Qu,  
F.G.S, F.R.S.C.† Prof.

Schofield, S. J, M A, B Sc. Qu.,  
Ph D. Mass. Inst. Tech.,

F G S A., F R S C Prof.

Williams, M Y, B Sc Qu, Ph D.  
Yale, F G S A, F R S C

Prof of Palæont

Phemister, T. C., B Sc. Glas, Sc M.  
Chic, Ph.D Glas.

Assoc Prof of Miner and  
Petrography.

1 Asst.

*History*

[Prof

Harvey, D. C, B A Dal, M A Ox.

Sage, W. N, B A Tor, M A. Ox,  
Ph D Tor. Assoc. Prof.

Soward, F. H, B A Tor, B Litt  
Ox. Asst. Prof

Painter, F, B A B Col  
Spl. Lectr

2 Assts

*Horticulture, v Agr.*

*Mathematics*

Buchanan, D, M A McM, Ph D  
Chic, F R S C † Prof

Nowlan, F S, B A Acad, A M.  
Harv, Ph D. Chic Prof.

Robinson, G. E., B A Dal  
Assoc Prof

Jordan, E E, M A Dal.  
Assoc. Prof.

Richardson, L, B Sc Lond.  
Assoc. Prof.

Hartley, B. S., M.A. Camb.  
Asst. Prof.

5 Assts.

*Mining and Metallurgy* [Prof.

Turnbull, J M, B A Sc McG.

Thomson, H. N., B Sc. McG.  
Prof. of Met

Gillies, G A., M Sc McG.  
Assoc. Prof. of Mining.

1 Asst.

*Modern Languages*

Ashton, H., M.A. Camb., D Lett.  
Univ. Paris, D Litt. Birm.,

F.R.S.C., O I P.  
Prof. of French

Clark, A. F. B., B A. Tor., Ph.D.

Harv Assoc. Prof (French).

MacInnes, Isabel, M.A Qu., Ph.D.  
Calif. Assoc. Prof.

Chodat, H., M A. McG and Harv ,  
Off. d'Acad

Assoc. Prof. (French).

Greig, Janet, B A. Qu., M A  
B Col. Asst. Prof. (French).

6 Assts.

*Nursing and Health* [Prof.

Hill, H. W. (v. Bacteriology)

Gray, Miss M. F., R N, Cert. P H N.

Simmons Coll Asst. Prof.

16 Part-time Instrs.

*Philosophy*

Coleman, H. T. J., B A. Tor ,  
Ph.D. Col. (also Spl. Lectr  
in *Educn.*) Prof

Henderson, J , M A. Glas

Assoc Prof

Wyman, Mrs J Benson, B A ,  
M Sc. New Zealand, A M ,  
Ph D. Stanford

Assoc. Prof. (*Psychology*  
and *Educn* )

*Physics*

Hebb, T. C , M A , B Sc Dal ,  
Ph.D. Chic. Prof.

Hennings, A. E , M A Lake  
Forest Coll., Ill., Ph D Chic.  
Assoc. Prof.

Davidson, J. G., B A Tor , Ph.D.  
Calif. Assoc. Prof.

Shrum, G. M , M.A., Ph D. Tor  
Assoc. Prof.

2 Assts

*Zoology*

Fraser, C McL , M A. Tor , Ph D.  
Iowa, F.R.S.C. Prof.

Spencer, G. J , B.S.A. Tor., M.S.  
Illinois Asst. Prof.

Smith, Gertrude M. Instr.  
1 Asst.

## Agriculture

*Agronomy*

Boving, P. A , Cand Phil and  
Agr (Sweden) Prof.

Moe, G. G , B.S.A , M Sc. McG.  
Assoc. Prof

Laird, D. G., B.S.A Tor., M.S.  
Wisc. Asst Prof.

2 Assts.

*Animal Husbandry*

King, H. M , B.S.A. Tor., M S.  
Oregon Ag Coll. Prof.

Davis, R L , B.S.A Mont ,  
M S A Iowa S.C. Asst. Prof.

Hare, H. R , B.S.A. Tor., M.A.  
Wis. Asst. Prof.

Jervis, J. G., V.S. Ont Vet Col ,  
B V.Sc. Tor.

Lectr. in Vet. Sc.

1 Asst.

*Dairying*

Sadler, W , B.S.A , M.Sc. McG ,  
N.D.D. (Reading) Prof.

Golding, N. S , N.D.A , N.D.D.,  
B.S.A. Tor., M Sc. Iowa

Assoc. Prof.

1 Asst.

*Horticulture*

Clement, F. M., B.S.A. Tor., M.A.  
Wisc.\* Prof.

Barss, A. F , A B Roch , B S Agr.  
Corn , M S Oreg Ag Coll

Assoc Prof.

Buck, F. E , B S A. McG.  
Assoc. Prof.

1 Asst.

*Poultry Husbandry*

Lloyd, E. A , B S A Sask , M S A.  
Wash S C. Prof.

Asmundson, V. S , B S A Sask ,  
M S A. Corn. Assoc. Prof.

1 Asst.

\* Dean of Faculty.

## AFFILIATED COLLEGES

VICTORIA COLLEGE, Victoria. Affiliated, 1920, for 1st and 2nd years in Arts.  
Principal—P. H. Elliott, M.Sc. McG., Assoc. Prof. of *Science* ; E. Stanley Farr,

B.A., LL.B. Tor., Asst. to Principal, Asst. Prof. of *History* and *Econ.* Other Profs.—J. Marr, M.A. Aber., Registrar, Asst. Prof. of *Classics*; Jeanette A. Cann, B.L. Dal., Asst. Prof. of *Engl.* and *Philos.*, H. Ruth Humphrey, B.A. Mt All, B.A. Ox., Instr. in *English*; Mme. E. Sanderson-Mongin, Asst. Prof. of *French*, J. A. Cunningham, B.A. (Qu.), Asst. Prof. in *Biol*; W. H. Gage, M.A. B. Col., Instr. in *Maths.*

UNION COLLEGE OF BRITISH COLUMBIA, Vancouver (United Church of Canada)—Registrar, J. Carruthers, M.A., D.D., Principal, J. G. Brown, M.A., D.D.; and THE ANGLICAN THEOLOGICAL COLLEGE OF BRITISH COLUMBIA, Vancouver—W. H. Vance, M.A., D.D., both affiliated in 1922.

## GENERAL INFORMATION

Telegraphic Address—UBRICO.

An Act of the Provincial Legislature was passed in 1890 establishing a University of British Columbia, but it lapsed in 1891. Vancouver High School was affiliated to McGill for the first year in Arts under the name of Vancouver College in 1899. In 1902 Victoria High School was similarly affiliated as Victoria College. In 1906 the Royal Institution for the Advancement of Learning of B.C. was incorporated, and established the McGill Univ. Coll. of B.C., taking over, by agreement, the Arts work of Vancouver College (extended in 1908 to include the 3rd yr. in Arts), and adding 2 yrs. of Applied Science. In 1907 Victoria College was incorporated in the Univ. Coll. The connexion with McGill was brought to a close in 1915, when the University of British Columbia, incorporated by an Act of 1908, and endowed with 2,000,000 acres of land, was opened, with provision for a complete course in Arts and 3 yrs. in Applied Science. In 1920 all lands in the Province which had been set aside for higher education reverted to the Provincial Government, but it was arranged that the net proceeds from the sale of lots or lands in an area of 3000 acres at Point Grey should be paid into a "University Endowment Account." The University site consists of 548 acres on the headland of Point Grey, 300 feet above the sea. Here a group of buildings constructed at a cost of nearly \$2,000,000 was opened in Oct. 1925.

The Board of Governors consists of the Chancellor, elected by Convocation, President, and 9 nominees of the Lieut.-Govr. in Council. The Senate consists of the Minister of Educn., Chancellor, President (as Chairman), Deans, and 2 Profs. of each Faculty, 3 nominees of the Lieut.-Govr. in Council, Supt. of Educn., principals of normal schools, one member elected by high school principals and assts., one by Provl. Teachers' Inst., one by each affiliated Coll. or School in the Province, 15 by Convocation.

The Univ. is an integral part of the public educational system of the Province, and its function is to complete the work begun in the public and high schools. It is the policy of the Univ. to promote education in general and, in particular, to serve its constituency through three channels—teaching, research, and extension work. As regards teaching it furnishes instruction in the various branches of a liberal education, and in those technical departments which are most directly related to the life and industries of the Province. The people of the Province are informed of the results of special work by the staff of the Univ. through extension lectures. Lecturers are sent to various parts of the Province during the examination weeks in Dec. and April. In places which can be visited without prejudice to the duties of the lecturer at the Univ., lectures are arranged to take place during term.

The LIBRARY has nearly 65,000 vols. and over 10,000 pamphlets, and regularly receives 500 periodicals. LABORATORIES available for all courses.

A Forest Products Lab. (with two Olsen Universal Testing Machines of 200,000 and 30,000 lb. capacity respectively and one Hatt-Turner Impact Testing Machine) was established in 1918 by the Forestry branch of the Dept. of the Interior as a permanent branch of the F P Labs. of Canada. HERBARIUM, 16,000 sheets native flora, 200 water colours B C Fungi. BOTANICAL GARDENS, Arboretum and economic section, 5 acres.

FACULTIES. Arts and Science, Applied Science (Civil, Elec., Mech., Forest, Geological, Metallurgical, Mining, and Chemical Engineering, Chemistry, Nursing and Health), Agriculture (including Dairying and Horticulture).

PENSION SCHEME. In 1924 a contributory plan of retiring allowances for members of the teaching staff was adopted, contracts being placed with the Teachers' Insurance and Annuity Asscn. of America. The same year the Univ. was associated with the Carnegie Foundation for the Advancement of Teaching, v p 342

MATRICULATION examns., Junior and Senior, are arranged by the High School and Univ. Matricn Board of the Province, consisting of members appointed by the Dept. of Education and by the Univ. Every student is submitted to a physical examn. on entrance to the University.

DEGREE COURSES B A, 4 yrs (3 from Senior Matricn) B.A.Sc. in Applied Science, 5 yrs (4 from 1st yr in Arts or Senr matricn). B.S.A., 4 yrs. from Junr matricn Double course, B A and B A.Sc., 6 yrs Courses for the M A, M A Sc., and M S A Short courses in Agric at the Univ. and elsewhere 1 yr course in Public Health for graduate nurses Occupational course of 1 yr in Agriculture Evening Courses, with summer excursions, in Botany.

SUMMER SESSION. In 1922 the summer school for teachers became the summer session. Teachers and others with full Matricn standing may pursue Univ. courses and receive credit therefor towards the B.A. degree

FEES, inclusive, \$100-\$150 per session. Graduation, \$20

SCHOLARSHIPS FOR GRADUATES \$200 awardable to graduate for further studies, three of \$100, one being for Applied Science and one for Canadian History, \$1200 p a. for 3 yrs. for study in France, one of 10,000 francs for study in France.

RESIDENCE. Board and lodging in vicinity of the College from \$40 to \$50 p m

UNIVERSITY EXTENSION. Numerous lectures have been given under Univ. auspices in different centres in the province, but adult education has not yet been given the status of a Department. The selection of speakers and of subjects is made by a Standing Committee on Univ. Extension, which provides series of connected lectures throughout the winter. Short courses of 4 days' duration have been conducted for a number of years with marked success. Present indications are that 3-yr. tutorial classes will not be organized in the Univ. for some time. The *Vancouver Institute* co-ordinates efforts of various organizations in the field of adult education.

PUBLICATIONS *Calendar* (April), *Agricultural Bulletins*.

## THE YEAR 1927-28

STUDENTS. Full-time: total, 1741, including 113 graduates. Short Courses: Summer Session, 1927, 487. Agric, 116; Occup Course (Agr), 13; Public Health Nursing, 5; Botany, 37.

DEGREES. M.A., 16; B.A., 172; M.A.Sc., 1, B.A.Sc., 27; M.S.A., 1; B.S.A., 7.



DALHOUSIE UNIVERSITY, HALIFAX,  
NOVA SCOTIA

CHAIRMAN OF THE BOARD OF GOVERNORS—G. FRED PEARSON, LL. B.

PRESIDENT OF THE UNIVERSITY—A STANLEY MACKENZIE, Ph D.,  
DCL., LL.D.

REGISTRAR—Prof M. MACNEILL, M A.

LIBRARIAN—Prof. A. MACMECHAN

PROFESSORS, LECTURERS, ETC.

*Anatomy* [Campbell Prof  
Cameron, J, M D Edin, D Sc  
St And, M R C S

Curry, W. A., M.D., C.M. McG.,  
F.R.C.S. Eng. Demr

Mader, V. O , M D , C M   McG  
Demr

Marshall, A. M., M. D., C. M. Demr  
O'Brien, H. D., M. D., C. M. Demr

*Archæology*  
Falconer, J W, M A Edin, D D  
Knox. Lectr

*Biblical Literature* [Lectr  
Line, J., M A. Tor., S T.D McG

*Biology* [Assoc. Prof.  
Gowanloch, J. N., B A., B Sc. Man.  
Bell, H. P., Ph.D. Tor, M.Sc.  
Assoc. Prof

Chemistry  
McIntosh, D., A.M. Corn., D.Sc.  
McG.

Research Prof. and Head  
of Dept.

Nickerson, C. B., M A. Clark Prof.  
King, H S, A B Harv Asst Prof.

Todd, E. W., B A Instr

*Classics*  
Murray, H, B A Lond, LL D.  
Tor. McLeod Prof.

Nichols, E W, Ph.D. Yale Prof.  
Griffin, A K., M A. Tor. and Ox  
Assoc. Prof. (K.).

Logan, J. W., M. A. Lectr.

Commerce  
Hunt, B C, B B A Boston Prof.

*Dentistry, v infra*

*Economics and Sociology*  
Maxwell, W. R , M.A Harv  
Asst. Prof. (K.).

Prince, S H., Ph D. Col.  
Asst Prof (K).

Engineering, Civil [Prof.  
Copp, W. P., B A. Ac., B Sc. McG  
Theakston, H. R., B.Sc. (Mining),  
(N S T C) Asst. Prot.

*English Lang and Lit.*  
MacMechan, A, B A. Tor., Ph D.  
J H U., LL.D. Tor.

MacFarlane, W. D., M.A. King's,  
Ph.D. Gott. Prof. (K.).

\*Bennet, C. L., B.A. Camb.  
Assoc. Prof (K).

Lowe, E Margaret, B.A Tor.  
Lectr. (Engl. Comp.)

Geology [Asst Prof.  
McIntosh, D S, M Sc. McG., B.A.

(K.) = King's College.

\* On leave during 1928-29.

*History*

- Wilson, G. E., M.A. Qu., Ph.D.  
Harv Prof  
Walker, A. S., M.A. Leeds and  
Birm. Prof. (K.).

*Law, v. infra**Mathematics*

- Macneill, M., M.A. Harv. Prof  
Adshead, J. G., B.A. Camb  
Lectr (K)

*Mathematical Physics*

- Henderson, G. H., Ph.D. Camb,  
M.A Prof. (K),

*Medicine and Surgery, v. infra**Modern Languages*

- Gautheron, René, Ag. de l'Univ.  
(France) McLeod Prof.  
\*Mercer, C. H., M.A., B.Com  
Manc. Assoc Prof.  
Lemaitre, G., Agrégé de l'Univ de  
Paris Lectr (K)

*Music*

- Dean, H. Lectr

*Philosophy* [Munro Prof

- Stewart, H. L., M.A. R.U.I. and  
Ox, Ph.D. R.U.I.

- Symons, N. J., M.A. Ox.  
Prof. (Psychol).

*Physics*

- [Munro Prof  
Bronson, H. L., B.A., Ph.D. Yale  
Johnstone, J. H. L., Ph.D. Yale,  
M.Sc. Prof

*Physiology and Histology*

- Babkin, Boris, M.D. St Petersburg,  
D.Sc. Lond. Prof

- Eadie, G. S., M.B. Tor, Ph.D.  
Camb Asst

- Bean, R. J., M.S. N.H.

Assoc. Prof (*Hist & Embry*).

- Bean, Elizabeth S., B.A. Cinn,  
M.A. Wis, Ph.D. Wis

Instr (*Hist & Embry*)

*Political Science*

- MacKay, R. A., M.A. Tor, Ph.D.  
Princ Dennis Prof.

*Law*

- Bankruptcy* [Lectr.  
Rutledge, J. E., B.A., LL.B.

- Bills and Notes, Equity, etc.*  
Read, H. E., B.A. Acad, LL.B.  
Dal, LL.M. Harv. Asst Prof

- Constitutional Law and Pro-  
cedure and Property*

- Read, J. E., B.C.L. Ox, B.A.  
Munro Prof.

- Criminal Law* [Lectr  
Doty, I. C., B.A. Acad, LL.B.

*Evidence and Partnership*

- Macdonald, A. L., LL.B.  
Asst. Prof.

- Hist. Engl. Law* [Lectr.  
Godfrey, J. W., B.A., B.C.L. Ox

*Insurance*

- Thompson, W. E., LL.B. Lectr.  
Jones, F. H. M., B.A., LL.B. Lectr.

*Mortgages*

- Chipman, C. R., B.A. Acad, LL.B.  
Lectr

- Practical Statutes* [Lectr  
Daley, G. McL., B.A., LL.B.

*Sales*

- Inglis, R. E., B.A., LL.B. Lectr.

*Shipping*

- Burchell, C. J., M.A., LL.B., K.C.  
Lectr.

- Medicine* (for subjects of the first  
2 yrs—Anat, etc, v. *supra*)

*Anæsthetics*

- Lessel, J. F., M.D., C.M. Demr  
Muir, W. L., M.D., C.M. McG.

Demr.

*Bacteriology, v. Pathology.**Bio-Chemistry*

- Young, E. G., B.A., M.Sc. McG.,  
Ph.D. Camb. Prof

- Grant, G. A., B.Sc. Demr

*Ear, Nose, and Throat* [Demr.

- Doull, A. E., M.D., C.M. McG.

(K.) = King's College.

\* On leave during 1928-29.

*Eye, Diseases of the, etc.*

Mathers, R. E., M.D. N.Y. Lectr.

Cunningham, A. R., B.A., M.D.,  
C.M. Demr

Kirkpatrick, H. W., M.D., C.M.

Schwartz, H. W., M.D., C.M. „  
Demr*Gynæcology, v. Obst.**Hygiene and Public Health*

Prof. Hattie (v. Ment) Prof.

Jost, A. C., M.D., C.M. McG.

Lectr.

Chusholm, H. A., M.D., C.M. McG.

Lectr

*Materia Medica*

Burbidge, G. A., M.N.S. Phm.

Soc. Demr

*Medical Jurispr*

Prof Woodbury (v. Dentistry)

Demr

*Medicine and Clin. Med, v also**Ped. and Skin.*

Silver, L. M., B.A. Vind, M.B.,

C.M. Edin Emer Prof

MacKenzie, K. A., M.D., C.M.

Assoc. Prof

Siemewicz, T. D., M.D., C.M.

Lectr.

Johnston, S. R., M.D., C.M. Lectr

Churchill, J. L., M.D., C.M. McG.

Lectr.

McLarren, P. D., M.D., C.M.

Lectr.

*Mental Diseases* [Prof.

Hattie, W. H., M.D., C.M. McG.

Lawlor, F. E., M.D., C.M. McG.

Demr

*Obst. and Dis. of Women and**Children*

Almon, W. B., M.D., C.M. (Obst.)

Assoc. Prof.

Atlee, H. B., M.D., C.M., F.R.C.S.

Edin.

Assoc. Prof. and Head of

Gynæc. Dept.

Macdonald, P. A., M.D., C.M.

McG. (Practical O.) Demr.

Maclellan, E. K., M.D., C.M.

Assoc. Prof.

*Pathology and Bacteriology*

Smith, R. P., M.B., Ch B Glas.

Prof

Jamieson, H. M., L.R.C.P. &amp; S.

Ed, L.R.F.P.S. Glas Asst.

Lyons, J. N., M.D. Demr. in B.

Irving, Marion R., M.D., C.M.

Techn

*Pediatrics and Medicine*

Carney, M. J., M.D., C.M. McG,

B.A. Lectr.

Campbell, J. G. D., M.D., C.M.

Demr (Ped.)

Wiswell, G. B., M.D., C.M.

Demr. (Ped.)

*Pharmacology* [Prof.

Gibbs, Owen S., M.B., Ch B Edin

*Psychiatry*

Marshall, C. S., M.D., C.M. Lectr.

*Skin Diseases and Medicine*

Mack, F. G., M.B., C.M. Tor

(Demr. in Urology) Lectr.

*Surgery and Clin Surg*

Hogan, E. V., C.B.E., M.D., C.M.

McG, M.R.C.S. Eng,

L.R.C.P. Lond.

Prof and Head of Dept.

Murphy, G. H., M.D., C.M. (Chn.

S) Assoc. Prof.

McDonald, H. K., M.D., C.M.

McG (Chn) Prof.

Stewart, J., M.B., C.M., LL.D.

Edin (Surg)\* Prof.

Weatherbe, P., M.B., Ch B. Edin.

(Op. Surg.)

Assoc. Prof. &amp; Demr.

McDougall, J. G., M.D., C.M.

McG. (Chn) Assoc. Prof.

Thomas, L., M.D., C.M., M.R.C.S.

Eng., L.R.C.P. Lond. (Pract.

Surg) Demr.

Curry, W. A., M.D., C.M., F.R.C.S.

Eng Lectr.

Burris, M. G., B.A., M.D., C.M.

Demr.

MacDonald, D. J., M.D., C.M.  
 McG Demr  
 Acker, T. B., M.D., C.M. Demr.  
 Graham, J. V., M.D., C.M. Demr.

*Therapeutics* [Lectr  
 Corston, J. R., B.A., M.D., C.M.

### Dentistry

*D Anatomy*  
 Ritchie, S. G., B.A. N Brun,  
 D.M.D., T.D.C. Prof

*Crown and Bridge Work, etc*  
 Oxner, W. C., D.D.S., B.C.D.S.  
 Prof  
 Faulkner, A. W., D.D.S. Lectr.

*Dentistry*  
 Bagnall, J. S., D.D.S. Prof  
*Drawing, Modelling, and Metal-  
 craft*  
 Brodie, Margaret Instr

*Exodontia and Radiology* [Lectr  
 Hennigar, G. R., D.D.S., B.C.D.S.  
*Genl and Oral Surg and  
 Anæsth.*

Woodbury, F. V., M.D., C.M. Dal,  
 L.R.C.S. and L.R.C.P. Edin.,  
 L.F.P.S. Glas. Prof

*History, Ethics, and Jurispr*  
 Crosby, H. S., D.D.S. Lectr.

*Hygiene, Preventive and Clinical  
 Dentistry* [Prof.  
 Thomson, G. K., D.D.S., P.D.C.

*Materia Medica*  
 Woodbury, K. F., D.D.S. Lectr.

*Metallurgy*  
 Nickerson, C. B., M.A. Lectr  
 Logan, G. M., D.D.S. Demr

*Operative D.* [Prof  
 Beckwith, W. H. H., D.D.S. Penn  
 Chudleigh, D. G. A., D.D.S.,  
 B.C.D.S. Lectr.

*Orthodontia*  
 Woodbury, W. W., B.Sc., D.D.S.,  
 P.D.C. Prof

*D Pathology and Therap*  
 Cogswell, A. W., M.D., C.M. Hfx,  
 M.C., D.D.S. Penn Prof.

*Prosthetic D*  
 Ritchie, S. G., B.A., N.B., D.M.D.,  
 T.D.C. Prof

Bagnall, J. S., D.D.S. Asst. Prof.  
 Chmo, C. B., D.D.S. Dal Lectr.

*Pre-school Age Clinic*  
 Dawson, W. G., D.D.S.  
 Opr & Demr

## ASSOCIATED AND AFFILIATED INSTITUTIONS

### UNIVERSITY OF KING'S COLLEGE, v. *infra*.

PINE HILL DIVINITY HALL, Halifax. Classes and exams in Hebrew and in New Testament Greek at the College are recognized as qualifying for the B.A. Students may complete the Div. course at the Coll. and take the B.A. in 6 yrs. Confers the degree B.D. Principal, Rev. Clarence MacKinnon, M.A., D.D., LL.D. Other Profs · J. W. Falconer, D.D.; W. G. Watson, D.D.; J. Line, D.D.

PRINCE OF WALES COLLEGE, Charlottetown, P.E.I. Students holding certain certs. of the Coll. enter the 1st, 2nd, or 3rd yr. of the B.A. course. Principal, S. N. Robertson, M.A., LL.D.

HALIFAX CONSERVATORY OF MUSIC. Courses recognized for Mus.B. and Lic Mus. Director, H. Dean.

HALIFAX LADIES' COLLEGE. The teaching in Household Science is recognized as part of the qualification for the Univ. diploma in that department. Principal, Miss F. E. Blackwood, B.A.

MARITIME COLLEGE OF PHARMACY. Courses recognized for B.Sc. Dean, G. A. Burbidge.

BIOLOGICAL BOARD OF CANADA. Classes in Fisheries. School recognized for B.Sc.

CONVENT OF THE SACRED HEART (Mother Superior, Madame Naud) AND MOUNT ST. VINCENT ACADEMY (Mother Superior, Mother Berchmans). Recognized for Advanced Standing in 1st and 2nd years in Arts.

## GENERAL INFORMATION

Dalhousie College, founded in 1818 by the Earl of Dalhousie, was in 1841 granted Univ. powers, but was closed in 1845 for want of sufficient funds. In 1863 it was reorganized and opened with a staff of 6 Professors. In 1877 the Faculty of Science was organized, and from 1879 development proceeded rapidly with the help of the benefactions of George Munro of New York (\$350,000), Alexr. McLeod of Halifax (\$65,000), and Sir Wm. Young (\$88,000). The Faculty of Law was established in 1883, the School of Mines in 1902. In 1911 the Halifax Medical College, into which the Faculty of Medicine (organized in 1868) had been merged, was acquired by the Univ., and the College of Pharmacy was established with its co-operation. In 1912 the work of the Maritime Dental College was taken over by the Univ. In this year \$400,000 was collected for a new site (40 acres) and buildings, etc., towards which Andrew Carnegie gave \$40,000. Further benefactions amounting to \$200,000 were received in 1915-18. In connexion with centenary celebrations in 1919 subscriptions amounting to \$2,250,000 were obtained.

Appointments to the Board of Governors are made by the Govr-in-Council on the nomination of the Board or on the nomination, with the approval of the Board, of individuals or bodies supporting chairs.

LIBRARIES 55,000 vols. and 10,000 pamphlets. Access also to Science Library—61,000 vols and pamphlets; Legislative—24,000 vols, Theol.—11,000; Law—18,000. MUSEUMS Ornith, Geol, Indian antiquities. Access to Provincial Museum of Geol, Mineral, Zool. LABORATORIES Chem., Physical, Geol., Engin., Biol., Bio-Chem, Physiol., Histol., Pharm, Psychol.

FACULTIES Arts and Science (including Commerce, Music, Pharmacy, Fisheries, and Engineering), Law, Medicine, Dentistry

MATRICULATION requirements are articulated to the High School system of the Province which covers the 4 last years of the Public School 12-year course. The compulsory subjects for admission to the B.A. and LL.B. courses are (1) English, (2) Maths, (3) Latin or Greek, (4) another foreign language, (5) History (British or Ancient), Physics, or Chem; B.Sc. and B.Com.—(1), (2), (5), two foreign languages; B.Mus.—(1), (2), (5), French, German; M.D., C.M.—(1), (2), (4), Latin, Brit. Hist, Phys., Chem.; D.D.S.—(1), (2), Phys., Chem., Latin, Brit. Hist.

DEGREE COURSES. 4 yrs.—B.A., B.Sc., B.Com.; 3 yrs.—LL.B., Mus.B.; 4 yrs.—D.D.S.; 5 yrs.—M.D., C.M. (taken together); 4 yrs. (following 4 yrs. practical experience)—B.Sc. (Phm), the first 2 yrs. of the Engn. course (v. p. 342). The M.D., C.M., and D.D.S. can be reached by concurrent courses in 8 yrs. The M.A. or M.Sc. is given on successful completion of an approved 1-yr. course of study by a B.A. or B.Sc., respectively, of an approved Univ. The course may be pursued by graduates of Dalhousie wholly or in part by private reading, attendance at the Univ. being optional for them.

DIPLOMA course for the Lic Mus.—2 yrs. Music and Pharmacy courses are taken in the Affiliated Institutions, v. *supra*. A 6 mos.' course of training for Pub. Health work for trained nurses is provided.

**FEES.** For tuition, for each class (ex. lab. or draughting-room), \$22.50; lab or draughting-room class, \$30 Composition for tuition in Law, \$175 p.a.; Med., \$225 p.a., Dent, \$200 p.a.

**SCHOLARSHIPS FOR GRADUATES.** \$250 in Polit. Sc. for study in another Univ. **LOAN FUNDS** for students have been instituted.

**RESIDENCE.** Hostel for 100 women students, erected at a cost of \$400,000. Dormitories are provided also for men students.

**PUBLICATIONS.** *Calendar* (July); *Annual Report* (Sept.); *Gazette*, \$1; *Dalhousie Review*, quarterly For description and photogravures of buildings, see *Jour. Royal Arch. Inst. of Can.*, Jan -Feb. 1926.

## THE YEAR 1927-28

**NEW DEVELOPMENT.** In 1928 the University, with the co-operation of the Biological Board of Canada, established a course leading to the degree of B.Sc. (Fisheries) for the training of scientific men for the advancement of the fishing industry. The general cultural classes and the purely scientific subjects will be given by the staff of the faculties of Arts and Science and Medicine. The classes in the technical operations of the fisheries will be given by the staff of the Biological Board at the Atlantic Experimental Fisheries Station on the harbour front. The Dominion Government is providing a special clean seawater station at the mouth of the harbour for class and research work in Marine Biology.

**HONORARY DEGREE** LL.D —Allan C. Johnson.

**STUDENTS** Full-time total, 823, graduates, 18.

**DEGREES.** B.A., 61, M.A., 12, B.Sc., 6, M.Sc., 4, B.Com., 7, B.Mus., 1; LL.B., 11, M.D., C.M., 26

## UNIVERSITY OF KING'S COLLEGE, HALIFAX, NOVA SCOTIA

(Associated with Dalhousie University)

**PATRON**—THE ARCHBISHOP OF CANTERBURY.

**VISITOR AND CHAIRMAN OF THE BOARD OF GOVERNORS**—THE ARCHBISHOP OF NOVA SCOTIA.

**VICE-CHAIRMAN OF THE BOARD OF GOVERNORS**—THE BISHOP OF FREDERICTON.

**PRESIDENT**—Rev ARTHUR H. MOORE, M.A., D.C.L. (Lennox), D.D

**REGISTRAR**—T. H. HUNT, M.A., D.D

**BURSAR AND DEAN OF RESIDENCE**—R. L. NIXON, M.Sc.

**DEAN OF WOMEN**—Mrs. W. F. McCURDY

**PROFESSORS AND LECTURERS** *Divinity*—Vroom, Ven. Archdeacon F. W., D.C.L. Bishop's Coll., M.A., D.D., Dean of Divinity and Librarian, Hunt, T. H., M.A., D.D., Alexandra Prof.; Hiltz, R. A., M.A., D.C.L., Lectr., the President.

For *Classics, Economics, English, History, Maths., Math. Physics, Mod. Langs., and Philos.*, see Dalhousie Univ. staff list.

## GENERAL INFORMATION

*Postal Address*—King's College, Halifax, N.S.

Opened in 1789 at Windsor, N.S., the College was established with full University powers by Royal Charter in 1802. In Sept. 1923, following the recommendation of experts commissioned by the Carnegie Foundation for the Advancement of Teaching, who advocated the policy of bringing together the colleges of the Maritime Provinces in one central Univ. at Halifax, the Univ. removed to Halifax and became associated with Dalhousie Univ.—the first step towards a federation of the maritime colleges. The staffs in Arts of the two Univs are combined in one faculty. The first year courses are given independently to the students of Dalhousie and of King's; but with this exception students of both institutions follow on equal terms the same courses leading to the same degrees. King's holds in abeyance her degree conferring power in Arts and Science, but retains complete control of her Divinity School as well as of her present endowments, administration of residences, etc. Under the terms of the agreement between Dalhousie and King's, the Carnegie Foundation has set aside \$600,000, which will be handed over to King's when a sum sufficient to establish the College in Halifax has been raised. The School of Law which was established in connexion with the College, in St. John, N.B., in 1892, was transferred to the Univ. of New Brunswick in Sept. 1923, when King's College removed to Halifax. The Univ. is governed by a Board consisting of the Bishops of the dioceses of Nova Scotia and Fredericton and the President of the Univ. *ex officio*, together with 10 members elected by the Alumni Assocn. and 8 elected by each of the diocesan Synods.

Students from the JAMAICA CHURCH THEOLOGICAL COLLEGE who, after a residence of six terms there, pass the required exams. in the subjects of the Divinity course at King's, may receive the diploma of L.S.T.

PUBLICATION. *Calendar*.

## THE YEAR 1927-28

BENEFACTIONS. Since the spring of 1926 \$400,000 has been received for building endowment fund

HONORARY DEGREES. D.D.—G. R. E. Macdonald, H. F. Zwicker, A. H. Wurtele.

STUDENTS. Full-time: total, 75, including 1 graduate.

DEGREE OBTAINED. B.D., 1.

# LAVAL UNIVERSITY, QUEBEC

VISITOR AND CHANCELLOR APOSTOLIC—His Eminence Cardinal R M ROULIAU, D D , Rom Archbishop of Quebec

RECTOR—Mgr. AMÉDÉE GOSSELIN, M A , Sup of the Seminary of Quebec.

SECRETARY OF THE UNIVERSITY AND MODERATOR—Prof W E CANNON, M ès A

## TEACHING STAFF

*Anatomy, v. Med.*

*Astronomy, Practical*

Smith, A., M A (Dir. of Quebec Observatory) Prof

Benoit, B., B A , Lic D Prof

*Biology, v. Med.*

*Chemistry*

Fillion, Ph J., M ès A. Prof.

*Chemistry, Analytical*

Garneau, Sir G , B ès Sc Ap , Ing Civ , C L D'H Prof

Vachon, A , M A , Lic Ph Prof

*Chemistry, Organic*

Risi, L , D ès Sc Frib Prof

Cathala, J , D ès Sc Paris Asst Prof

*Classics*

Pelletier, Mgr. F., M A (Greek Lit.) Prof.

Croissant, L., L. ès L. Sorbonne, M A (Greek Lang) Prof

Levesque, R., M A., L ès L Sorbonne (Latin Lit) Prof

*Commerce, v Law*

*Dentistry, v Med*

*Economics, v Soc*

*Elocution*

Rivard, Hon. A , M.A , D. en Dr , D. ès L , K.St Gr.\* Prof

*English*

Cannon, W., M.A. Prof.

*Entomology*

Maheux, G , M A , Ing For. Prof.

*Forestry*

Piché, G C , M A., Ing For. Prof.

Bédard, A , M A , Ing For. Prof

*Forest Law*

Richard, L A., D en Dr. Prof.

*French Language*

Aubert, A Prof

*French Literature*

Roy, Mgr C , L ès L Sorbonne, D Ph Prof

Gaillard de Champris, H., D. ès L. Prof.

Maheux, A , M A , L ès L. Sorbonne Prof of Rhetoric.

Laliberté, M , M A , L ès L. Sorbonne Prof of Rhetoric

*Geology and Mineralogy*

Vachon, A , M.A , L Phil Prof.

*Histology, v. Med*

*History (General)*

Chapais, Hon. T , D L , C St Gr., C L D'H. Prof.

Savard, G Prof.

*History of the Church*

Gignac, Mgr J , D D. Prof.

\* Judge of the High Court.



*History of Canada and of the Church in Canada*

Gosselin, Mgr, M A. Prof.  
Genest, O., B ès L Prof

*Law, v. infra*

*Mathematics*

Tremblay, A. Prof.  
Mercil, A., M. ès A, Ing Civ, Prof.  
B. ès Sc.Ap. Prof.  
Bergeron, O., M. ès A Prof.

*Medicine, v. infra*

*Music*

Gilbert, J A, Mus D. Prof  
Talbot, R Asst Prof.  
Pelletier, Canon J. R. Prof.  
Laroche, E.  
Tardif, A  
Destroismaisons  
Bernier, A  
Gagnon, H

*Pedagogy*

. . . . Prof.

*Philosophy*

[Prof  
Déchéne, G, B A., Lic.Ph, D.D  
Robert, A., M A., L. en Econ  
Louv, D D. Prof.

*Physics*

Benoit, R., B A, Lic Ph Prof.  
Larose, P, Ph D McG Prof.

*Physiology, v. Med.*

*Social and Political Econ*

Gregoire, J. E., LL L., L. ès Sc.  
Louv. (S. and P.) Prof.

*Surveying*

Joncas, P, Ing Civ, B. ès Sc Ap,  
M Can. Soc. C.E. (Building  
and S) Prof.

*Theology, v. also Hist.*

Paquet, Mgr L A., V.G, D Th., Prof.  
M.St.T.A.  
Nadeau, E., D.Th., L en Dr. Can. Prof.  
Gariépy, Mgr. C. N, D.Th. Prof.  
Gagnon, C., D.Th. Prof.

Foy, C, Lic. en. Ph., D.Th. Prof  
Gignac, Mgr. J., D.Th, D. en Dr  
Can., Rome (Canon Law) Prof.

Vandry, F, D.D, Lic.Ph. Prof  
Grandbois, J E, L en Ph, D.Th  
(Holy Script. and Orient.  
Langs) Prof.

*Zoology and Botany*

Robitaille, A., M.A. Prof.

*Law*

*Admin, Const, and Munic. L.*  
Sirois, J, D en Dr. Prof.

*Civil L.* [Prof.  
Dorion, Hon. C. E, D. en Dr.\*  
Roy, F, D en Dr, Magistrate,  
O I P Prof

*Commerc and Marit Law*  
Bernier, L M. J A., D. en Dr.\*  
Prof.

Marchand, A, D en Dr, Judge  
Superior Court Prof  
Gravel, J, D en Dr, K C Prof.

*Criminal L.* [Prof.  
Lachance, A, L en D, Judge  
Fitzpatrick, Rt. Hon Sir Chas.,  
G.C.M.G., D en Dr., P C C.  
Prof

*History of L* [Prof.  
Pelland, Léo, LL L., Lic.Ph.  
St. Laurent, L., D. en Dr., K C.  
Prof.

*International L.*  
Rivard, Hon. A., M.A, D. ès L.,  
D. en Dr \* Prof.

*Municipal L.* [Prof.  
Prévost, J A., D en Dr., K C.

*Procedure, Civil*  
Pouliot, A, D. en Dr. Prof.  
Baillargeon, E., D. en Dr, K.C.  
Prof.  
Gagué, J.-A., LL.L., K.C. Prof.

*Roman L.*  
Belleau, E., D. en Dr, K.C. Prof.

Desrivières, E., D en Dr.	Prof.	<i>Materna Medica</i>	
Roy, O., LL.D.		Faucher, P. V., M D	Prof.
		Roy, S., M D.	Prof.
<b>Medicine</b>		<i>Medicine, Clinical</i>	
<i>Anatomy, Descriptive</i>		Rousseau, A, M.D.	Prof.
Dagneau, C, M D.	Prof	<i>Mental Disease</i>	
<i>Anatomy, Pathological</i>		Brousseau, A., M.D Paris	Prof.
Vallée, A, M.D (Dir. of P.A. and Bact. Labs.)	Prof	<i>Ophthalmology</i>	
		Pagé, J. D, M D.	Prof.
<i>Anat. and Oper. Med, Pract.</i>		<i>Ophth and Ot Clin., etc.</i>	
Pâquet, A, M D	Prof	Coote, P, M D.	Prof.
<i>Biology</i>		<i>Pathology, Ext and Clin Surg</i>	
Paulin, A., M D. Paris	Prof.	Simard, E T A, M D., O I P.	Prof.
Potvin, R, M D.	Prof.		
<i>Dentistry</i>		<i>Pathology, General</i>	
Langlois, A, D Dent	Prof	Berger, L, M D Stras	Prof.
Gaudreau, S., D.Dent	Prof	Jobin, A, M D	Prof
<i>Dermatology</i>		<i>Pathology, Internal</i>	
Mayrand, R., M.D	Prof.	Guérard, J, M.D	Prof.
<i>Gynæcology and Gyn Clin</i>		Fortier, E, M D	Prof.
Grondin, S., M.D, C L D'H, O I P.	Prof	<i>Pediatrics, etc.</i>	
	Prof	Fortier, R, M D	Prof.
Caouette, J, M D.	Prof	Jobin, A, B A, M D	Prof.
<i>Hygiene, Public</i>		<i>Physiol and Chem</i>	
Paquin, R, M D.	Prof	Lacroix, J B, M D	Prof
Couillard, E., M.D.	Prof.	<i>Surgery, Clinical</i>	
<i>Laryngology</i>		Dagncau, C, M.D	Prof.
Fiset, L. J N, M D.	Prof.	Marois, A, M.D.	Prof.
Dussault, N. A, M D (Rhino-Lar, etc )	Prof.	Simard, A, M D	Prof
Vaillancourt, J, M D	Prof.	<i>Therapeutics</i>	
		Lessard, A., M D.	Prof.

## INSTITUTIONS ANNEXED OR AFFILIATED TO THE UNIVERSITY

[“Annexion” implies absolute control by the Univ. of the programmes of study and of the nomination of the staff. “Affiliation” or—in the case of an institution outside the province of Quebec—“agrégation” involves control by the Univ. of examinations.]

ÉCOLE D'ARPEMENT ET DE GÉNIE FORESTIER (Surveying and Forestry). Founded by Govt. and affiliated to the Faculty of Arts. Director, Avila Bédard, Prof. of Forestry 11 other Profs.

ÉCOLE AGRICOLE DE STE. ANNE DE LA POCAITIÈRE, affiliated. Director, Prof. N. Pelletier. 12 other Profs.

ÉCOLE SUPÉRIEURE DE CHIMIE. Affiliated to the Faculty of Arts. Director, A. Vachon. 7 other Profs.

**ÉCOLE NORMALE SUPÉRIEURE.** Affiliated to the Faculty of Arts. Director, Prof. F. Pelletier 10 other Profs.

**ÉCOLE DE MUSIQUE** Affiliated to the Faculty of Arts. Director, J. A. Gilbert. 6 other Profs

**ÉCOLE DE PHARMACIE** Affiliated to the Faculty of Arts. Director, R. Guay. 4 other Profs.

**ÉCOLES DE GARDE-MALADES.**

**ÉCOLE SUPÉRIEURE DE PHILOSOPHIE.** Director, Mgr. L. A. Paquet, D.D. Rom, and 4 other Profs.

**GRANDS SÉMINAIRES.** (Pupils obtain the B en Th. by passing a certain number of quarterly exams. in the Seminary.) Québec (comprising Theol. students under its jurisdiction or following its courses); Ste. Anne de la Pocatière (Coll. de Ste. Anne); Rimouski; Chicoutimi; Nicolet; Trois Rivières.

**ENSEIGNEMENT SECONDAIRE MODERNE ET CLASSIQUE.** Numerous institutions are affiliated to the Univ. under conditions providing for complete preparation for Inscription and the Baccalauréat.

## GENERAL INFORMATION

The Univ. was founded by the Seminary of Quebec in 1852 under a Royal Charter. A general supervision of teaching and discipline is exercised by the Archbishop of Quebec as Visitor and Chancellor Apostolic and President of the Conseil Supérieur of Archbishops and Bishops of the Province. The Profs. of the Faculty of Theology are nominated by the Visitor, those of other Faculties by the Conseil de l'Université, composed of the Directors of the Seminary of Quebec and 3 Senior Profs. of each Faculty.

**LIBRARIES,** 173,016 vols **MUSEUMS** Mineral., Geol., Bot., Zool., Ethnol., Relig., Paintings, Coins. **LABORATORIES:** Chem., Phys., Bact., Biol., Physiol.

**FACULTIES.** Arts (with Schools of Surveying and Forestry, Chemistry and Training for Teachers annexed), Theology, Law, Medicine.

**DEGREES AND DIPLOMAS.** The Univ. perpetuates the stages by which a Degree was, and still is, reached in the Univ. of Paris. The Baccalauréat (B. ès A., etc.) is not the equivalent of any of the English Degrees, but is an official certificate (recognized by the Govt.) that the student has successfully completed his literary and scientific studies, and is entitled to begin his professional studies in law, medicine or applied science. It is obtained before he leaves the affiliated Institute, Seminary or College at which he has studied. Students who reach a certain standard in both Letters and Sciences obtain the B ès A.; those who reach this standard in either and a certain lower standard in the other obtain the B. ès L. or B. ès Sc. The course for the Licence covers 2 yrs. in Philos. (L. en Ph.) or Letters (L. ès L.); 3 yrs. in Theol. or Law (L. en Th. or Dr.). To obtain the D. en Ph. or D. en Dr. it is necessary to support successfully in public a thesis and propositions as in other French Univs. The D. en Th. and D. en M. or M.D. are granted after examn.

The complete medical course formerly lasted only 4 yrs., but since Jan. 1909 has, in accordance with the regns. of the Provincial Coll. of Phys. and Surgns., been framed so as to cover 5 yrs. The Baccalauréat, however, may be taken on the completion of 2 yrs. The Doctorat gives admission to the examn. for the Diploma of M.R.C.S. Lond. Inscription in Arts is recognized as corresponding to the Prelim. examn. of the R.C.S. Lond. The examns.

for the Dipl. of Hygiéniste expert may be taken by a D. en M. after a 6 mos.' course.

The Diploma in Forestry and in Surveying implies 4 yrs.' study in the Sch. of Surveying and Forestry.

The new École de Chimie provides a 4 yrs.' course leading to a Licence and to a Doctorate in Chemistry.

RECOGNITION of the B. ès A. of Laval is accorded by the Univs. of Rome, of France and of Louvain, and by Canadian Univs., and some of those of the U.S.A.

FEES for tuition, \$100 to \$185 p.a.

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PUBLICATIONS *Annuaire* (July), *Canada Français*, *Literary Review*, *Enseignement secondaire*, *Pedagogic Review*, *Bulletin médical*

## THE YEAR 1927-28

NEW AFFILIATION Académie Commerciale.

INTERCHANGE OF TEACHERS Lectures by Doctors from Paris and Lille were given. Ten graduates went abroad for study.

DEATHS. Dr G. Ahern, Dr. J. Gosselin, Dr. F. E. Francœur, Prof. H. Simard.

HONORARY DEGREES LL.D.—E Lapointe, Lucien Cannon, Justice Prud'homme, Justice Prendergast. D.S.A.—L P Roy, H. Barton, H. Howes

STUDENTS. Full-time, 2456. Part-time, 525.

DEGREES B ès A., 175; B ès Sc, 35, B. ès L., 10; M.B., 29; M.D., 45; LL.B., 4; Lic Phil, 7; Lic.Dr, 21, Lic Theol, 6; B.Th, 6, D.Th., 4; Diplomas in Chem, 6; Nursing, 17, Music, 101, Agric., 9.

# McGILL UNIVERSITY, MONTREAL

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ROYAL VICTORIA COLLEGE, Montreal (The Women's College of the Univ.).  
Warden—Ethel Hurlbatt, M.A. Dub. (Somerville Coll., Oxford).

## PROFESSORS, LECTURERS, ETC.

### *Accountancy*

Thompson, R R , A C.A (Engl & Wales) Prof.

### *Agriculture, v. infra*

### *Anatomy*

[Prof.

Whitnall, S E., M A , D M. Ox.

Beattie, J , M Sc , M D Asst Prof

MacDermot, H E , M D Lectr

14 Demrs.

### *Architecture*

Traquair, R., M.A. (Hon),

F.R.I.B.A. Macdonald Prof.

Nobbs, P. E., M.A., F.R.I.B.A.,

A R C A. (Design) Prof.

Dyonnet, E. Spl Instr.

Turner, P. J., F.R.I.B.A. (Constrn.,

etc ) Spl. Lectr.

Carless, W , O.B.E., F.R.I B A.

Asst. Prof.

Thomson, L. R., B A Sc.

Spl. Lectr.

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Collip, J B , M A., Ph D , M D.,  
D Sc Prof.

Bliss, S , M A , Ph D Assoc. Prof.

Thomson, D. L , B Sc., M A.

Lectr.

2 Demrs.

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Macdonald Prof.

Derick, Carrie M., M.A. (Morph.

B ) Prof.

Scarth, G. W., M.A. Assoc. Prof.

3 Demrs.

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Bres., F.I.C. Prof. (Inorg C.).

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Prof. (Physical Chem.).

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A R.C.S.  
Prof. (Organic Chem.).
- Hibbert, H., D Sc. Manc., Ph D.  
Leip.  
Prof. (Industrial and  
Cellulose Chem.)
- McLean, A. R. M., M Sc., Ph D  
Asst Prof
- Hatcher, H. W., M.Sc., Ph D  
Asst Prof
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Alberta, Ph D Chic. Prof
- Stanley, Carleton W., B A. Ox.  
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Ox., M A Assoc Prof
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Assoc. Prof
- Irwin, Elz. A., M A  
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- McCullagh, P F., B A Lectr
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- Sugars, R M., M A  
Dir of School and  
Assoc Prof of Spanish
- Dentistry*, v. *infra*
- Economics*, v Pol. Econ
- Education*
- School for Teachers in Mac-  
donald College:
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Dean & Prof
- Brunt, H. D., M.A., Ph D. Lectr.
- Lockhart, A. R. B., B.A. Lectr.
- Musgrove, R. B Lectr.
- Brownrigg, Novah E. Lectr
- Ramsay, Violet B. Lectr.
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- Irvine, C E., M A Lectr
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- Herriott, Jesse, B Sc., M A  
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Univ Med Off
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- Furness, Lucie Touren, L. ès L.  
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- Durand-Joly, Mme Lectr
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Crowdy, C. T., M.D. Lectr.  
1 Demr.

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Fryer, C. E., M.A., Ph.D. Harv.  
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Adair, E. R., B.A. Camb.  
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4 Assts.

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*Library School*  
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Asst. Director and Prof.  
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B.L.S. Lectr.  
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*Medicine, v. infra*  
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Graham, R. P. D., B.A. Ox., M.Sc.

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Giblin, N., M.B., Ch.B. Asst. Prof.  
2 Demrs.

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Chic., Litt.D., LL.D. Prof.

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Goforth, W., B.A. Tor Asst. Prof.

Culliton, J., M.A. Lectr

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Assoc. Prof.

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Assoc. Prof. (Med. Psychology).

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North, F. G., B.S.A. Lectr

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M'Taggart, Alex., Ph.D.

Asst. Prof.

Lods, E. A., M.Sc. Asst. Prof.

Raymond, L. C., B.S.A.

Asst. Prof

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Ness, A. R., B.S.A. Asst. Prof.

Crampton, Earle W., M.S., B.S.A.

Asst. Prof.

Hamilton, L. H., M.S. Lectr.

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1 Asst

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Bemont, L. H., B.S. Lectr.

Russell, Clive E., B.S. Lectr

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Rowles, W., M.Sc. Lectr

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Ph.D. Prof

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Coulson, J. G., M.A. Asst. Prof.

Vanterpool, T. C., M.Sc. Lectr

1 Asst.

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Bemont, L. H., B.Sc. Lectr

1 Asst.

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*Prosthetic D.*

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Dohan, J. S., D.D.S. Assoc. Prof.

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Bond, W. L., B.A., B.C.L., K.C.

*D. Anatomy* [Asst Prof]

Beattie, J., M.Sc., M.D.

Abraham, J. W., D.D.S. Lectr.

*D. History, Ethics and Econ*

Stevenson, F. A., D.D.S., D.M.D.

Harv. Lectr.

Martin, O. (Palate Restn.) Lectr.

9 Demrs

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and Wales, B.A. Canada

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*Applied Mech and Hydraulics*

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*Civil Engineering*

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M.Am.Soc.C.E. Prof

..... Assoc. Prof

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Dodd, G. J., M.Sc. Asst. Prof.

Wood, F. M., M.A., B.Sc. Lectr.

2 Assts.

*Economics*

Day, J. P., B.A., B.Sc. Lond.,

D.Phil. St. Andrews

Assoc. Prof.

Farthing, J. C., M.A. Ox.

Asst. Prof.

Culliton, J., M.A. Lectr.

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Prof.

Burr, E. G., B.Sc. Asst. Prof.

Wallace, G. A., M.Sc. Asst. Prof.

Steel, W. A. Spl. Lectr.

Schippel, W. H., B.Sc. Lectr.

3 Demrs.

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Armstrong, H. F., M.A. (Hon.)

Prof.

3 Demrs.

*Highway and Municipal E.*

French, R. de L., B.Sc., C.E. Prof.

*Law, Engineering*

Weldon, J. W. Lectr.

*Mechanical Engineering*

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Roberts, A. R., M.Sc. Assoc. Prof.

Coote, J. A., B.Sc. Asst. Prof.

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McCurdy, L. R., B.Sc. Lectr.

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Sproule, Gordon, M.Sc. Asst. Prof.

Pascoe, C. F. Spl. Lectr.

Roast, H. J. Lectr.

1 Asst.

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Macdonald Prof.

Bell, J. W., M.Sc. Prof.

Erlenborn, Willi, M.Sc. Lectr.

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*Surveying and Geodesy*

Kelly, A. J., B.Sc. Asst. Prof.

Weir, James, B.Sc. Asst. Prof.

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K.C. Assoc. Prof.

Le Mesurier, C. S., B.A., B.C.L.,

K.C. Prof.

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B C L Asst Prof

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*Ethics, Legal*

[Prof.  
Mignault, P. B., LL.D. Laval, K C.

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[Prof  
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Bruère, A A, M D Edin (B and  
Chn Med) Asst Prof  
Beattie, W. W., B A, M.D. Lectr  
1 Asst Demr.

*Dermatology*

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Burgess, J. F, M D. Lectr.  
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Little, H M, B A, M D

Clinical Prof  
Goodall, J R, O B.E, B A, M D,  
D Sc Clinical Prof  
Duncan, J. W, M D

Clinical Prof  
Burgess, H C, M D Clinical Prof  
Fraser, J R, M D Clinical Prof  
Patrick, D, M D Lectr  
Bauld, W. A. G., M.D. Lectr.  
5 Demrs.

*History of Medicine*

Macphail, Sir A, B A, M.D Prof

*Med. Jurispr.*

[Prof  
MacTaggart, D D, B A Sc., M D.

*Med., v. also Bact, Ped.*

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Martin, C. F, B A, M D. Prof.  
Howard, C P., B.A., M D. Prof.  
Hamilton, W. F., M.D. Prof.  
Gordon, A H., M.D. Assoc. Prof.  
Peters, C A., D.S.O., M.D

Asst. Prof  
Mason, E H., M D. Asst. Prof.  
Abbott, Maude E, B A, M D  
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search

Parsons, T R, M.A., B.Sc.  
Asst. Prof. of Med. Re-  
search

Rabinowitch, I M, M D.  
Asst Prof.

Browne, J G, B A, M.D Lectr.  
Kaufmann, J, M D Lectr  
Byers, J. R, M D Lectr.  
Long, C N H, M Sc Lectr  
Lewis, D S, B A, M D Lectr.  
Wylde, C F, M D Lectr.  
Moffatt, C F, M D Lectr.  
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Mackay, F H., B A. } Profs.  
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Mathewson, G H, B A, M D.

Clinical Prof.  
Tooke, F. T, B A, M.D Lectr.  
McKee, S H, B A, M D Lectr  
6 Demrs and Asst Demrs

*Oto-Laryngology*

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White, E H, B A, M D Lectr  
7 Demrs. and Asst. Demrs.

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Assoc. Prof  
Chase, W H, M.D Lectr.  
Waugh, T. R., M A, M D  
Asst. Prof.  
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 Chandler, A. B., M.D. Lectr.  
 Ross, S. Graham, B.A., M.D. Lectr.  
 Lindsay, L., M.D. Lectr.  
 Struthers, R. R., B.A., M.D. Lectr.

Goldbloom, A., B.A., M.D. Lectr.  
 Wright, H. P., M.D. Lectr.  
 3 Demrs. and Asst. Demrs.

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Moore, A. B. J., Ph.G. Hd. of Dept., Prof

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 Lewis, D. S., B.A., M.D. Asst. Prof.  
 Dreyer, N. B., M.A., M.D., M.R.C.S. Asst. Prof.  
 Bourne, W., M.D. Lectr.  
 Campbell, D. G., B.A., M.D. Lectr.  
 Harvey, F. W., M.D. Lectr.  
 Browne, J. G., M.D. Lectr.  
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*Psychiatry*

[Clinical Prof.]  
 Porteous, C. A., M.D.  
 Slight, D., M.B., Ch.B., D.P.M. Asst. Prof.  
 Hincks, C. M., M.D. Lectr.  
 Young, A. W., M.D. Lectr.  
 3 Demrs.

*Public Health and Prev. Med*

Fleming, A. G., M.B., D.P.H. Prof. and Director  
 Starkey, T. A., M.B., D.Ph., L.R.C.P. Lond., M.R.C.S. Eng., M.D., C.M. Strathcona Prof.

McDonald, R. St. J., B.A., M.D., D.P.H. Asst. Prof.  
 Jones, F. B., M.D., D.P.H. Asst. Prof.

Mitchell, W. T. B., M.B. Asst. Prof.  
 Pedley, F. G., B.A., M.D. Lectr.

*Surgery*

[Prof.]  
 Archibald, E. W., B.A., M.D.  
 Bazin, A. T., M.D. Prof.  
 Eberts, E. M., M.D., M.R.C.S. Eng. Assoc. Prof.  
 Barlow, W. L., B.A., M.D. Asst. Prof.

Keenan, C. B., M.D. Asst. Prof.  
 Patch, F. S., B.A., M.D. (Urology) Prof.

Mackenzie, D. W., B.A., M.D. (Urology) Prof.

Turner, W. G., B.A., M.D., M.R.C.S. Eng. (Orthop. Surg.) Prof.

Forbes, A. M., M.D. (Orthop. Surg.) Prof.

Penfield, W. G., Litt. B., B.Sc., M.A., M.D. Clinical Prof.

Nutter, J. A., B.A., M.D. Clinical Prof. (Orthop. Surg.).

Howell, W. B., M.D. (Anæsthesia) Lectr.

Scrimger, F. A. C., B.A., M.D. Lectr.

Tees, F. J., B.A., M.D. Lectr.

Henry, C. K. P., M.D. Lectr.

McKenty, F. E., M.D. Lectr.

Gurd, F. B., B.A., M.D. Lectr.

Cone, W. V., B.S., M.D. Lectr.

Powell, R. E., B.A., M.D. (Urology) Lectr.

Patterson, W. J., B.A., M.D. Lectr. (Orthop. Surg.).

19 Demrs. and Asst. Demrs.

## AFFILIATED INSTITUTIONS

ACADIA, ALBERTA, MT. ALLISON, AND ST. FRANCIS XAVIER UNIVS. Students who have completed the 2-yr. course in Engin. of these Univs. are admitted directly to the 3rd yr. in McGill Engin. courses.

GRADUATES OF THE ROYAL MILITARY COLLEGE, Kingston, are admitted to the 3rd yr. in McGill Engin. courses. Graduates and students of the Mechanical Science course of CAMBRIDGE are admitted to advanced standing in the Faculty of Appl. Sc. Particulars obtainable from the Dean of the Faculty.

**TRURO AGRICULTURAL COLLEGE.** Students who have completed the 2-yr. course of study are admitted to the 3rd yr. in the Faculty of Agriculture at Macdonald College.

## THEOLOGICAL COLLEGES

**DIOCESAN COLLEGE OF MONTREAL.** Principal, G. Abbott-Smith, M.A., D.D., D.C.L

**PRESBYTERIAN COLLEGE, MONTREAL.** Principal, D. J. Fraser, M.A., LL.D.

**UNITED THEOLOGICAL COLLEGE, MONTREAL.** Principal, J. Smyth, B.A., D.D., LL.D

Students enter after graduation or pursue courses concurrently in Arts at the Univ., in Theol. at the Coll.—6 yrs. in all.

## GENERAL INFORMATION

The Hon. James McGill, of Montreal, who died in 1813, bequeathed 46 acres of land, with some buildings and £10,000, to found a college, and in 1821 the Royal Institution for the Advancement of Learning, the trustees for the purposes of the bequest, obtained a Royal Charter (amended in 1852) under which the work of teaching was begun in the Faculties of Arts and Med. in 1829. The Governors are the members of the Royal Institution above mentioned. Their number is limited to 25, and vacancies are filled by nomination of the remaining members, with the approval of the Visitor. The Govrs., Principal, and 50 Fellows (representing faculties and depts., grads., affil colls., and other bodies) constitute the Corporation, the highest academical body, which frames regulations. The Peter Redpath Museum was opened in 1882, the Redpath Library in 1893, Royal Victoria Coll. in 1899, the Conservatorium in 1904. Macdonald College was opened in 1907, and in 1911 Sir Wm Macdonald purchased for the use of the Univ., at a cost of \$1,117,640, 25 acres of land, destined for students' residences and athletic grounds. The same year \$1,550,000 was raised for the Univ. chiefly from Montreal citizens. Sir Wm. Macdonald bequeathed nearly \$2,000,000, of which \$500,000 was for the Medical Faculty and \$300,000 for the Conservatorium. In 1918 the Carnegie Corporation, New York, gave \$1,000,000 in recognition of McGill's service and sacrifice in the Great War. In 1920 the sum of \$1,000,000 was given by the Rockefeller Foundation for the Faculty of Medicine; \$1,000,000 by the Provincial Govt. for general purposes; and \$4,400,000 was raised from the graduates and the citizens of Montreal as a general endowment. Income from Investments, about \$1,100,000.

**SPECIAL FEATURES.** The provision for instruction and research in Applied Science is exceptionally ample, especially in Engin. in all its branches. The Med School also is exceptionally strong. The new Biological Building was opened in 1922, the Pathological Institute in 1924, and the reconstructed McGill College (Arts Building) in 1926

**LIBRARIES,** 300,000 vols. (Medical, 38,000; large Ophth. Dept.) and 35,000 pamphlets; Peter Redpath collection of 10,000 political and religious tracts dating from A.D. 1600; E. S. Wood Library of Ornithology; Blackader Library of Archit; Blacker Library of Zool.; Travelling Library; Gest Chinese Research Library. **LABORATORIES:** Chemistry, Physics, Zool., Bot., Physiol., Psych. Research, Agric. Research. **FARM,** Live Stock and Grain, 786 acres. **ASTRON. OBSERVATORY.** **MEDICAL MUSEUM** (Strathcona), said to be the finest in America; rich collection of disturbances of heart and vascular

system and aneurisms. Hospls. available for clinics, general—800 beds, several special.

**FACULTIES.** Arts, Law, Medicine (including Pharmacy), Applied Science (Archit., and 6 branches of Engin.—Chem., Civil, Elec., Mech., Metall., Mining), Agric., Dentistry, Music. The Univ. has also Schools of Commerce, Physical Educn., Graduate Nurses, Social Service, a Graduate School, and (in Macdonald Coll.) Household Science and a School for Teachers.

**ADMISSION.** For candidates in Great Britain an examn. is held in London in June. particulars obtainable from W. A. Bulkeley Evans, M.A., 5 Paper Buildings, Temple, London, E.C.4.

**DEGREE COURSES.** 3 yrs.—B.C.L., Mus.Bac.; 4 yrs.—B.Com., B.A., B.Sc., B.S.A., B.H.S. (Household Science), D.D.S.; 5 yrs.—B.Arch., M.D., C.M.

B.A. or B.Sc. (Arts) course combined with B.Com., 5 yrs., with Appl. Sc., Dent., or Theol., 6; Med., 8.

Med students of 4 yrs.' standing of an approved institution may be admitted to the final examn. after one full session in McG. Recent grads. of approved Univs. may qualify for examns. by advanced courses or special research.

**HIGHER DEGREES.** Obtainable by 1 yr of resident graduate study at McGill, thesis and examn.—M.A., M.Sc., M.S.A.; by 3 yrs. of graduate study—Ph.D.; by valuable contribution to legal science—D.C.L.; by a composition and examn. not less than 3 yrs after taking the Mus.Bac.—Mus.Doc.; on recommendation of Board of Grad. studies—D.Sc., D.Litt.

**DIPLOMAS.** Lic. Mus., D.P.H., Teachers', Pharmacy, Graduate Nurses', Physical Education, Social Science, Library Science.

**WINTER COURSE IN AGRICULTURE.** The Winter Course in the Faculty of Agriculture has been extended from one year to two years. This course is intended to provide a general education for boys who intend to farm, and equip them with such a technical knowledge of agriculture as will enable them to deal with the problems arising in connexion with their work. The work is so arranged that students may choose subjects that definitely relate to the type of farming in which they are most interested.

Closely connected with this extension is the "old country boy" project, under which boys from the British Islands are encouraged to take up this diploma course at Macdonald College so as to fit them for the work of farming, and every effort is made, not only to give them the theoretical education that is needed, but also the practical. Since this plan was put into effect a year or two ago forty-three boys, representing thirty English public and secondary schools, have been placed on selected farms.

**ATTENDANCE** at lectures at the Univ or Macdonald or Affiliated Coll. is indispensable.

**FEES.** Per annual session, Arts, \$125; Appl. Sc., \$205, Med., \$250; Dent., \$210; Law, \$155; Music, \$180, Commerce, \$150; Agriculture, residents of Canada, \$50, others, \$100; M.A. or Ph.D. course, \$60. Graduation fee for M.A. or M.Sc., \$20; Ph.D., \$30; D.Sc. or D.Litt., \$80.

**SCHOLARSHIPS FOR GRADUATES.** In Econ. and Polit. Sc., Allen Oliver, \$650; Canadian Manufrs. Asscn. and the Graduate Working Fellowship, \$800 each; Chem., Sterry Hunt, \$1000, Geol., Le Roy, \$700, Mining Research and Teaching Fellowships, 3 of \$500 each; Med. Research, especially Obstetrics and Gynæc., A. A. Browne Endowment, \$10,000 open to grads. of any recognized Med. school; Path. Research, J. Douglas Endowment, \$25,000; any subject, "Delta Upsilon," \$750; The Moyse Travelling Scholarships, 2 of

\$1500 each; Law, Macdonald Endowment, \$20,000; The New Jersey Zinc Company, \$1200; Hugh McLennan, \$1000.

**RESIDENCE.** Women, Roy. Vict. Coll.; men, Strathcona Hall (Y.M.C.A.), accommodation for 60. **PHYSICAL TRAINING** is compulsory, and students are subjected to physical examn. on entering the Univ. Board and residence in Roy. Vict. Coll., \$500 per session; in private houses, \$60 p.m. and upwards; rooms only, \$15 to \$20 p.m.

McGill Union dining-room, accommodating 120 students at a time, provides inexpensive meals.

**PUBLICATIONS.** *Calendar* (June); *Coll. Announcements* (May to July); *Annual Report* (Dec.); *McGill News*, quarterly, by Graduates' Soc.; *McGill Daily*, by students, *Lectures and Addresses*; Catalogue of Scientific Periodicals in Canadian Libraries, 1924, \$5; *McGill and its Story, 1821-1921*, by Cyrus Macmillan (London, John Lane, New York, John Lane & Co.; Toronto, Oxford Univ. Press, \$3), *A Historical Sketch of the Medical Faculty and of the Origin of McGill University*, by Dr. Maude Abbott

## THE YEAR 1927-28

**INTERCHANGE OF STUDENT TEACHERS.** A. J. M. Smith, M.A., holds the Teachers' Studentship as arranged by an interchange with the National Committee for the Training of Teachers, Scotland.

**RESIGNATIONS** Dr. R. F. Ruttan, Director, Department of Chemistry. Dr. A. B. Macallum, Chairman, Department of Bio-Chemistry. Hon. Mr. Justice Thibadeau Rinfret, Prof. of Comparative Law. Prof. H. A. Smith, Prof. of Constitutional and Federal Law, on his appointment to the Chair of International Law in the Univ. of London.

**HONORARY DEGREES** LL.D.—Sir Herbert S. Holt, Sir Vincent Meredith, Bart., J. A. Thomson, M.A., LL.D., W. R. Blair, D.V.S., Canon H. J. Cody, D.D.; Sir Wilfred T. Grenfell, C.M.G., Georges Hles, Dr. J. C. Smith.

**STUDENTS** Full-time total, 2818, including 179 graduates. Part-time: total, 99

**DEGREES.** B.A., 152, B.Sc., 29, B.Sc. in Med., 3, B.Sc., 54, B.Arch., 5; B.C.L., 17; B.S.A., 13; D.D.S., 8, B.H.S., 5; Mus. Bac., 1, M.D., C.M., 91; M.A., 33, M.Sc., 27; M.S.A., 1, Ph.D., 8; B.Com., 31. Diplomas: Pharmacy, 8, Social Science, 9, Graduate Nurses, 4, Physical Education, 24; Licentiate in Music, 11, Library School, 20, Public Health, 2. Certificates: In the School for Graduate Nurses, 18

# McMASTER UNIVERSITY, TORONTO

CHANCELLOR AND PRINCIPAL—HOWARD P. WHIDDEN, B.A. Acadia,  
D D Dennison, LL D , D C L.

REGISTRAR AND TREASURER—E. J. BENGOUGH, B A

LIBRARIAN—DOROTHEA M. HALLFORD, B A

## PROFESSORS, LECTURERS, ETC.

*Biology* [Prof  
Smith, R W , B A , Ph D Chic  
Gaiser, Miss L O , M.A. West Ont.  
Asst. Prof

*Chemistry*  
Walker, W O , M A Tor Prof  
*English* [Prof.  
McLay, W. S W., M A Harv ,  
D Litt. Ac , LL.D. Queen's  
Haddow, G C , M A Tor.  
Asst Prof

*French*  
Briquet, P E , B A , Lic. Litt  
Geneva and Paris Prof

*Geology*  
McNairn, W H , M.A. Tor., Ph.D.  
Tor. Prof

*German* [Prof  
Mueller, P. W., B.A Tor., M.A.

*Greek*

.. ..

*History*  
New, C. W , B A Tor , B D., Ph D.  
Chic Prof

*Latin*  
.. .. Prof

*Mathematics* [Prof  
Findlay, W , M A , Ph D Chic  
Fitch, Miss M A , M A Tor , B.A.  
Spl Lectr

*Philosophy, Psychology, Logic,  
and Ethics*  
Ten Broeke, J., M.A. Middlebury,  
Ph D. Yale, LL.D. Prof.

*Physics*  
Dawes, H. F , M.A. Tor , Ph.D.  
Tor. Prof.

*Political Economy and Sociology*  
Michell, H , M A Ox Prof.  
Taylor, K. W , M.A. Chic., B.A.  
Asst Prof

*Public Reading and Speaking*  
Kirkpatrick, F. H , Ph D.  
Spl Lectr

## Theology

*Christian Education, Sociology,  
and Theology*  
McCrimmon, A L , M A. Tor ,  
LL.D. Prof.

*Church History and Missions*  
..... Prof.

*Homiletics and Pastoral Theol*  
Marshall, L. H., B.A., B.D. Lond.  
Prof.

*New Test Interpretation*  
Prof

*Hebrew and Old Testament  
Exegesis*

Parker, N. H , B.S , Th.D., Missis-  
sippi Coll and Southern Bapt.  
Seminary Prof.

*Missions and Evangelism*  
Orchard, M L , M A , B.D. Prof

*Preliminary Course* [Spl Lectr.  
Baker, J. J , M A. Tor , B D.

*Religious Education* [Spl. Lectr.  
Merrill, B W , B A , B Th.

## AFFILIATED COLLEGE

BRANDON COLLEGE, Brandon, Man., controlled by Baptist Union of  
W. Canada. Affild for courses in Arts President, ..... Professors in  
Arts Dept. . S. J. McKee, B.A., LL.D. (Emer. Prof.); Maths. and Latin—  
A. E. Johns, M.A.; French—Jean Chessex, M.A., B.Th., Dean of Women;

Annie E. Wright, M.A.; Chem. and Biol.—C. R. Elsey, M.A.; Geology—J. R. C. Evans, Ph.D., Dean; Old Test., Hebrew and Swedish—C. H. Lager, M.A., B.D.; History—T. Dadson, M.A., Ph.D.; Polit. Econ.—W. B. Hurd, M.A.; Philos.—C. F. Richards, B.Sc., B.D. (Acting Registr.); English—Ella A. Whitmore, M.A.

## GENERAL INFORMATION

In 1887 Toronto Baptist College and Woodstock College, Woodstock, were united under the name of McMaster University, and their already existing endowments were increased by \$900,000, received under the will of the Hon. Wm. McMaster. The Board of Governors (16) are elected by the Baptist Convention of Ontario and Quebec. There is no religious test for entrance, but the Profs. and Lectrs. must be members of some evangelical church. Moulton Ladies' Coll., Toronto (founded in 1888), is represented on the Senate.

**LIBRARY**, 28,000 vols. **LABORATORIES**: Phys., Biol., Chem., Mineral. Science Hall has 24 lecture rooms and labs.

**DEGREE COURSES**. 4 or 5 yrs., B.A.; 3 yrs. (after completing 2 yrs. of Arts course), B.Th.; 6 yrs., combined B.A. and B.Th. The first 2 yrs. in Arts do not necessarily involve attendance at lectures. Brandon Coll. provides instruction in Swedish for immigrants from that country.

The B.A. degree is recognized by the Univ. of London.

**HIGHER DEGREES**. Open to B.A. after 1-yr. course (attendance at lectures not required)—M.A.; to B.Th. who are also B.A. and have taken 3 yrs. in Hebrew, involving 1 yr. of study after graduating as B.Th.—B.D.

**DIPLOMA**. English Theol., 3 yrs.' course.

**CERTIFICATE**. Missionary Training for women.

**ADULT EDUCATION**. For adults who have not the necessary foundation for admission to the English Theol. or Women's Missionary course, a year of literary and biblical work qualifying for such admission is provided.

**FEES**. Annually, for tuition, examn., library—Arts, \$75, Theol., \$20. For student organizations, athletics, etc., men, \$8 50, women, \$9 50.

**RESIDENCE**. Board and room per session, men, in McMaster Hall, \$240; women, in Wallingford Hall, \$280.

**PUBLICATIONS**. *Calendar* (June); *McMaster Monthly* (students' magazine); *McMaster Graduate* (pub. by Alumni Assn.), three times a year.

## THE YEAR 1927-28

**NEW DEVELOPMENT**. A financial campaign for the raising of \$1,500,000 is just being completed, this amount being supplemented by \$500,000 raised by the citizens of Hamilton, Ont., the purpose of the total amount being for the relocation of the University in Hamilton. It is anticipated that the institution will be moved in 1930.

**DEATH**. Prof. Farmer.

**HONORARY DEGREES** *D.D.*—A. D. Brown, H. E. Stillwell. Also the following members of the Baptist World Congress (June 1928) T. C. Bau, F. W. Boreham, J. E. Ennals, J. A. Francis, H. C. Maunder, J. J. North, T. Phillips, F. W. Simoleit, G. W. Truett. *LL.D.*—J. J. Nicol, A. A. Shaw, J. T. Forbes, J. Hope.

**STUDENTS**. Full-time total, 323, including 20 graduates. Part-time total, 69, including 23 graduates.

**DEGREES**. B.A., 62; at Brandon College, 23; M.A., 8; B.Th., 6; English Course, 5.



# UNIVERSITY OF MANITOBA, WINNIPEG

VISITOR—THE LIEUT.-GOVERNOR OF THE PROVINCE

CHAIRMAN OF THE BOARD OF GOVERNORS—JOHN A. MACHRAY, M.A., LL.D., K.C.

CHANCELLOR—Most Rev. S. P. MATHESON, D.D., D.C.L., LL.D., Archbishop of Rupert's Land.

VICE-CHANCELLOR—Rt. Rev. Mgr. A. A. CHERRIER, LL.D.

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REGISTRAR AND SECRETARY OF BOARD OF GOVERNORS—W. J. SPENCE, B.A.

LIBRARIAN—F. E. NUTTALL, M.A.

DEAN OF WOMEN—URSILLA N. MACDONNELLI, M.A., Ph.D.

## PROFESSORS, LECTURERS, ETC.

### *Agriculture, v. infra*

#### *Anatomy, v. also Med.-Surg*

Grant, J. C. B., M.B., Ch.B., F.R.C.S. Edin. Prof.

Mainland, D., M.B., Ch.B. Edin. Asst. Prof.

Jackson, J. L., M.A. Alta., M.B. Tor. Lectr.

Isaacs, H. D., M.D. Demr.

M'Kenty, J., B.A., M.D. Demr.

McCharles, M. R., M.D., C.M. Demr.

4 Student Demrs.

### *Architecture*

Stoughton, A. A., Ph.B. Col. Prof.

### *Bio-Chemistry*

Cameron, A. T., M.A., B.Sc. Edin., F.I.C. Prof.

White, F. D., Ph.D. Edin., F.I.C. Lectr.

Walton, C. H. A., B.Sc. Demr.

### *Botany*

Buller, A. H. R., B.Sc. Lond., D.Sc. Birm., Ph.D. Leip., LL.D. Prof.

Roberts, H. F., B.A. Kans., LL.B. N.-Wstn., M.Sc. Kans. (Agr.) Asst. Prof.

Lowe, C. W., M.Sc. Birm. Lectr. 1 Demr. and 4 Student Assts.

### *Chemistry*

Parker, M. A., B.Sc. Glas., LL.D., F.I.C. Prof.

Armes, H. P., B.Sc. Leeds, Ph.D. Stras. Asst. Prof.

Shipley, J. W., M.A., Ph.D. Harv. Asst. Prof.

Hiebert, P. G., M.A. Tor., M.Sc., Ph.D. McG. Lectr.

2 Demrs. and 10 Student Assts.

### *Classics*

Clark, F. W., Ph.D. Chic., B.A. [Prof.]

Hugill, W. M., B.A. Tor. Asst. Prof.

Johnson, S., M.A. Asst. Prof.

### *Engineering, Civil*

Finlayson, J. N., M.Sc. McG., M.E.I. Can. Prof.

Moffatt, R. W., B.A.Sc. Tor., A.M.E.I. Can. Asst. Prof.

MacDonald, A. E., M.Sc. McG. Asst. Prof.

Hernot, G. H., B.Sc. Qu., D.L.S.,  
M.E.I.C. Asst. Prof  
Scott, W. M., B.A. Sc. McG,  
M.E.I.C. Lectr  
Riddell, W. F., B.Sc. (C.E.) Lectr  
3 Demrs.

### *Engineering, Electrical*

Fetherstonhaugh, E. P., B.Sc.  
McG, M.E.I.C., A.M.A.I.E.E.,  
Dean of Fac. Prof  
Dorsey, J. W., E.E. Lehigh,  
A.M.E.I.C. Asst. Prof  
1 Demr

### *Engineering, Mechanical*

Hall, N. M., O.B.E., B.Sc. McG,  
M.E.I.C. Prof

### *English*

Crawford, A. W., M.A. Tor, Ph.D.  
Corn Prof  
Perry, A. J., M.A. Yale Asst. Prof  
Allison, W. T., M.A. Tor, Ph.D.  
Yale Asst. Prof  
Woodhouse, A. S. P., B.A. Tor,  
A.M. Harv. Asst. Prof.  
Argue, R. F., M.A. Lectr  
Saunders, Doris B., M.A. Lectr

### *French*

Osborne, W. F., M.A. Tor Prof  
Evans, W. D., M.A. Tor  
Asst. Prof  
Ballu, Céline A., B.A. Wisc Lectr  
Richard, M. E. J., B.A. Alta  
Lectr  
Jones, C. M., M.A. Wales Lectr

### *Geology and Mineralogy*

Wallace, R. C., M.A., D.Sc. Edin.,  
Ph.D. Gott, F.G.S. Prof  
Kirk, S. R., B.Sc., Ph.D. St. And.  
Asst. Prof  
Greer, L., B.Sc. Asst.  
1 Demr. and 5 Student Assts.

### *German*

Heinzelmann, J. H., B.A. Ill.,  
Ph.D. Chic. Prof.

Schoolcraft, J. T., jr, B.S. Union,  
N.Y., A.M. Col. Lectr.  
Jones, Mrs. Anna C. A., B.A. Asst.

### *History*

Martin, C. B., M.A. N. Bruns.,  
M.A., B.Litt. Ox. Prof.  
Howe, J. E., B.A. Yale, M.A.  
Acad. Lectr.  
MacDonnell, Mrs. U. N., M.A.,  
Ph.D. Qu. Lectr.

### *Law, v. infra—Affiliated Colleges*

### *Mathematics*

Wilson, N. R., M.A. Tor, Ph.D.  
Chic Prof.  
Warren, L. A. H., M.A. Qu, Ph.D.  
Chic, F.R.A.S. Prof.  
Tier, W. M. A. Tor., Dean of Fac.  
of Arts Asst. Prof  
Milne, T. H., M.A. Tor. Asst. Prof.  
Lawson, J. W., B.A. Lectr.

### *Pharmacv*

[Prof.  
Bletcher, H. E., B.Sc. (Phar.)  
M'Dougall, D., M.Sc. Lectr

### *Philosophy*

[Prof.  
Wright, H. W., B.A., Ph.D. Corn.  
Lodge, R. C., M.A. Ox. Prof

### *Physics*

[Prof.  
Allen, Frank, M.A. N. Bruns. &  
Corn., Ph.D. Corn., LL.D.  
McClung, R. K., B.A. Camb., M.A.,  
D.Sc. McG Asst. Prof.  
Young, J. F. T., M.A. Tor, Ph.D.  
Tor. Asst. Prof.  
Smith, Allan, M.A. Asst.  
3 Demrs. and 4 Student Assts

### *Physiology, v. Medicine*

### *Political Economy*

Clark, A. B., M.A. Edin. Prof.  
Jones, R. F., M.A. Liv. Asst. Prof.  
Elliott, G. A., M.A. Asst. Prof.  
Wanes, W. J., M.A. Lectr

### *Zoology*

Wardle, R. A., M.Sc. Manc. Prof.  
Riley, C. F. C., M.A. Doane, B.S.  
Mich., M.S. Ill. Asst. Prof.

Neave, F., M.Sc. Manc.      Lectr.  
3 Demrs and 1 Student Asst.

### Agriculture

[at Manitoba Agricultural College]

McKilhcan, W C , B.S.A Tor      Dean

#### *Agricultural Engineering*

Shanks, G. L., B.S.A.      Prof.

#### *Animal Husbandry*

Wood, G W., B.S.A McG , M.S. Wisc.      Prof

Brown, J M , B.S.A Tor      Asst Prof

Sommerfeld, H B , M.S Wisc , B.S.A Sask      Asst Prof

#### *Animal Pathology*

Savage, Alfred, B.S.A McG , D V.M. (Corn )      Prof

#### *Bacteriology*

Lee, C H , M.A Tor      Prof.

#### *Biology*

Jackson, V W , B.A Qu , M.S Minn      Prof

#### *Chemistry*

Geddes, W F , B.S.A , M.A Tor      Prof (Agr Chem)

Munro, L A , M.A Dal , Ph.D McG      Asst Prof.

#### *Clothing and Textiles*

Groff, Clara Louise, B.S Col      Lectr.

McFadden, Eleanor G , B.S Iowa      Lectr

#### *Dairy Husbandry*

Brown, R W , B.S.A Tor.      Prof.

James, N., B.S.A. Tor , M.S Iowa      Asst. Prof.

#### *Economics, Rural* [Asst. Prof.

Grant, H. C., B.S.A., M.A.

#### *Education*

Moxon, Mary C., Ph B Chic      [Lectr.

#### *English*

Sproule, G. A., B.A. Tor.      Prof.

Hopper, C. R., M.A.      Asst. Prof.

#### *Entomology*

Mitchener, A V , B.A. McM., B.S.A Tor., M.Sc. Asst. Prof.

#### *Field Husbandry*

Harrison, T J , M.S. Minn., B.S.A.      Prof.

Ellis, J H , B.S.A , M.S Minn.      Asst Prof

Wiener, W. T G , B.S.A.      Asst. Prof.

#### *Home Economics*

Duncan, Mrs L C , Ph B. Chic , M.A      Director.

#### *Horticulture and Forestry*

Brodnick, F. W., B.S.A Tor      Prof.

#### *Household Art*

South, Mrs Jean      Lectr.

#### *Nutrition*

[Asst Prof. Hiltz, Mary C , B.S Col , M.A. Tor.

#### *Physical Education*

Youmans, R. W      Director.

#### *Physics*

Thomson, W A , B.S.A. Sask      Lectr (Phys and Maths.).

#### *Plant Pathology*

Bisby, G R , B.S So Dak., M.A. Col , Ph.D Minn      Prof.

#### *Poultry Husbandry*

Herner, M C , B.S.A. Tor.      Prof.

Rae, W J , B.S.A      Lectr

#### *Sociology and Economics*

Murchie, R W , M.A Glas , Ph.D. Minn      Prof.

6 Instrs and an extension service staff of 7.

#### **Medicine** (for subjects of first 2 yrs — Anat , etc , v *supra*)

#### *Bacteriology and Hygiene*

Douglas, A. J , B.A., M.D., C.M. (Hygiene)      Prof.

Cadham, F. T., B.A , M.D. (B. and Serology)      Prof.

Fraser, M. S., B.A., M.D., C.M. (Hygiene)      Lectr.

McCowan, W. P., B.A., M.B.

Lectr. (Bact)

2 Instrs.

*Gynæcology and Obstetrics*

Mackay, D S, OBE, MD,  
C M., FRCS Edin,  
F.A.C.S Prof.

McQueen, J. D, D.S.O, MD,  
C M, F A C S Assoc Prof

Bjornson, O, MD, C M, F A C S  
Prof (Obs)

Mitchell, R B, B A, MD, C M.,  
F A C S. Assoc. Prof (Obs)

Lectrs in Gynæcology:

M'Kinnon, F L, M.C, B A, M D,  
F A C S

Gorrell, J A, B A, M D, C M

Rice, C R, M D, C M

Lectrs in Obstet

Coulter, J. E, M D, C M,  
F A C S.

Campbell, W G, M D., C M.

Abbott, W. F., M C, B A, M D,  
C.M.

McGuinness, F G, M D.

Arthur, C L T, M D.

Kobrinisky, S, M D

*Hygiene, v Bacteriology*

*Laryngology and Otology*

Prowse, S W., B A, M D Edin,  
FRCS Edin., F.A.C.S,  
Dean of Fac Prof.

Fletcher, G. W, M D., F A C S.  
Assoc Prof.

Leishman, A, M D Assoc Prof.

Washington, E. J, M.D.  
Assoc. Prof.

2 Demrs in Otology

*Medicine and Clinical Medicine*

Hunter, C, M A, M D, M R C P  
Lond. Prof

Assoc. Profs. of Med.:

Burridge, A. J., M D, F.A.C.P  
(Therap).

Davidson, J R., B A, M D, C.M.

Hart, F, M.D., C M., M.R.C.S,  
L.R.C.P.

Gilmour, C R., M D, C M.

Moorhead, E. S, M B, B.Ch. Dub.

Young, F. A, O.B.E, B A, M B.,  
F.A.C.P.

Chestnut, W., M.D, C M.

Moody, A. W., M.D., C M.,  
F.A.C.P.

Stewart, D A, B A., M D, LL.D.

Mathers, A. T., M D, C M (Psy-  
chiatry).

Adamson, J D, M D.

Asst. Profs. of Med.:

Alexander, A B, B.A, M D.

Warner, N. W, M D.

Mackay, H., M D, C.M. (Dermato-  
logy)

Lectrs. in Med.:

Benner, F, M D, C M.

Campbell, S, C M G, M D.

Murdoff, H M., M.D., F.A.C.P.

MacDonald, D. A, M D.

Olson, B H., B A, M D

McMillan, J C, M D, F A C P

Lectr in Roentgenology  
and Electro-therapy.

Davidson, A. M., M.D. (Dermato-  
logy)

Swan, R R, M B, Ch B.

Walker, S. B, M.R.C.P., M R C.S.  
(Eng)

Hossack, J C, M D, C M.

Kitchen, H D, M.M, M D, C.M.

Smith, F A, M D

Turner, F. M, M D

Hollenberg, A, B A, B.Sc, M.D

15 Demrs

*Medical Jurisprudence*

Cameron, H M, B A, M.D,  
LL B Lectr.

*Ophthalmology*

Smith, W. H., M A, M D, C M.,  
F.A.C.S. Prof.

Bell, T H., M C, M.D, C M,  
F A C S. Assoc. Prof.

Bell, P. G., B.A., M D., F.A.C.S.  
Assoc Prof

Stefansson, J., M D. Lectr.  
1 Demr

*Pathology*

Boyd, W., M.D., M.R.C.P. Edin.,  
 Dipl Psych. Prof.  
 Nicholson, D., M.D., C.M.,  
 M.R.C.P. Lond. Asst. Prof.

*Pediatrics*

Rorke, R. F., M.D., C.M.  
 Assoc Prof.  
 Chown, G., O.B.E., B.A., M.D.,  
 C.M. Lectr.  
 5 Clin Demrs.

*Physiology and Pharmacology*

Moorhouse, V. H. K., M.C., B.A.,  
 M.B. Tor. Prof.  
 Ormerod, M. J., M.B. Asst. Prof  
 3 Student Demrs

*Surgery and Clinical Surgery*

Brandson, B. J., B.A., M.D.,  
 C.M., F.A.C.S. Prof  
 Waugh, O. S., M.D., C.M., F.A.C.S.  
 Asst Director  
 Assoc Profs. of Clin Surg :  
 Campbell, A. M., B.A., M.D., C.M.  
 Fletcher, R. D., M.A., M.D., C.M.,  
 F.A.C.S. (Urology).  
 Galloway, H. P. H., M.D., C.M.,  
 F.A.C.S. (Orthop.)  
 Gibson, A., M.B., Ch.B., F.R.C.S.,  
 F.A.C.S. (Orthop. ; also  
 Lectr in Applied Anatomy).  
 Gunn, J. A., C.B., O.B.E., B.A.,  
 M.D., F.A.C.S.

Lehmann, J. E., M.D., F.A.C.S.  
 Mann, W. L., B.A., M.D., C.M.  
 Maclean, N. J., M.D., F.A.C.S.  
 McKenty, J., M.D., C.M., F.A.C.S.  
 Webster, W., M.D., C.M. (Anæ-  
 thetics)  
 Elkin, S. J., M.D., C.M.

Asst Profs of Clin Surg  
 Boardman, E. J., M.D. (Urology)  
 Fahrni, G. S., M.D., C.M., F.A.C.S.

*Lectrs. in Clin Surg :*

Gardner, W. A., B.A., M.D., C.M.,  
 F.A.C.S. (Orthop.).  
 Hamilton, T. G., M.D., F.A.C.S.  
 McIvor, N. K., M.D., F.A.C.S.  
 Musgrove, W. W., M.D., C.M.,  
 F.A.C.S.  
 Murray, A. A., M.D., F.A.C.S.  
 (Orthop.).  
 Aikenhead, D. C., M.D.  
 Coad, W. E. R., M.D., C.M.,  
 M.R.C.S.  
 McEachern, J. D., M.D.  
 McIntyre, D. F., M.D., F.A.C.S.  
 Secord, W. H., M.D., C.M.  
 Burns, C. W., B.A., M.D., C.M.,  
 F.A.C.S.  
 Collin, L. D., B.L., M.D.  
 McKinnon, A. P., M.D., C.M.  
 Thorlakson, P. H. T., M.D., C.M.  
 2 Demrs. in Clin Surg.

*Therapeutics, v. Medicine*

**AFFILIATED COLLEGES** represented on the Council, the first four having power to confer degrees in Divinity :

**ST. BONIFACE COLLEGE**, St. Boniface (R.C.). Rector—Rev. J. P. Desjardins, S.J. (Building destroyed by fire, Nov. 25, 1922.)

**ST. JOHN'S COLLEGE**, Winnipeg (C. of E.). Warden—Rev. G. A. Wells, C.M.G., M.A. ; Registrar—W. Burman, B.A.

**MANITOBA COLLEGE**, Winnipeg (United Ch. in Canada). Principal—John MacKay, M.A., D.D. ; Registrar—Prof. J. Dick Fleming, Ph.D.

**WESLEY COLLEGE**, Winnipeg (United Ch. in Canada). President—J. H. Riddell, D.D., LL.D. ; Registrar—A. Stewart Cummings, B.A.

**MANITOBA LAW SCHOOL**, Winnipeg. Chairman of Trustees—Hon. H. A. Robson, K.C., LL.D. ; Acting Dean—Hon. H. A. Robson, K.C., LL.D. ; Recorder—R. J. Russell.

## GENERAL INFORMATION

Established in 1877 mainly as an examining and degree-conferring body, the Univ. was in 1900 empowered to give instruction. In 1917 a Board of Governors, appointed by the Lieut.-Govr., was constituted, and the functions of the Univ. Council, until then the governing body and composed largely of representatives of the affiliated Colleges, were limited to general charge of the academic work. The Univ. has the sole power of conferring degrees in Arts, Science, Law, Med., Engin., Pharmacy, Agric., and Archit. in the province. It received in 1898 from the Dominion Govt. a land grant of 150,000 acres.

Winnipeg, the capital of Manitoba, with its environs, including the neighbouring city of St. Boniface, has a population of over 290,000. Most of the university buildings at present occupy a site in the heart of the city. The Agricultural College is at Fort Garry, 7 miles distant.

**LIBRARY**, 44,000 vols., 450 periodicals received. In the Medical building is housed the library, 2000 vols. of the Manitoba C.P.S. The Agric. College has a library of 6700 volumes, and receives 142 periodicals. **LABORATORIES**. Anat., Bact., Bot., Chem., Engin. (Material testing—200,000 lbs., Cement, Elec.), Geol. and Mineral., Path., Physics, Physiol., Zool. **MUSEUMS**. Anat., Embry., Bot., Geol., Path. **HOSPITALS** available for clinics. 2 general (1000 beds) and several special, including tuberculosis. **FARM** on Agric. College estate (676 acres).

**FACULTIES**. (1) An Arts and Science Faculty providing instruction in all subjects of undergraduate courses in Arts (except 5 options), Science, and Phm. (2) Medicine. (3) Engineering and Archit. (4) Agriculture and Home Economics. Other subjects of Arts course are taught in the affiliated Colls. Law is taught in the Manitoba Law School, which is under the direction of trustees jointly appointed by the Univ. and the Law Society of Manitoba.

**MATRICULATION** examn is conducted in June by the Provincial Educ. Dept., also a limited Matricn in Sept. Matricn subjects for Arts or Science courses: English, Hist., Maths., Latin or Greek or French or German, a second language or 2 of the following—Physics, Chem., Genl. Science I, Genl. Science II.; a third language or 2 sciences not already taken, or 1 science not already taken with Home Econ. or Indust. Arts or Music or Agric. or Comm. work. Exemption from examination is allowed in the subjects of Grades IX and X. Matricn to pupils of the Collegiate Institutes of the province, or of the Preparatory schools in connexion with the affiliated Colleges, who are recommended for such exemption by their school principals. Entrance requirements for Medicine are clear standing of two pre-medical years in Arts and Science, for Law of 2nd year in Arts, with Latin to the end, at least, of the 1st yr.; for Engineering standing of one pre-engineering year in Arts and Science, and for Architecture one year in Arts and Science. Members of any British or approved Univ. may be admitted *ad eundem statum* or *gradum* without Entrance examn.

**DEGREE COURSES**. 4 yrs.—B.A., B.Sc., B.Sc. (C.E. or E.E.), B.Sc. (Phar.), B.Arch., LL.B., B.S.A., B.Sc. (H.Ec.), 5 yrs., following 2 pre-medical yrs.—M.D., 5 yrs.—B.A. (Hons.), B.Sc. (Hons.) Graduates in Med. of at least 2 yrs' standing with certain prescribed training and experience may obtain C.M. on passing written, oral, and practical examn., and presenting a satisfactory thesis.

**ATTENDANCE** at lectures is obligatory for all except extra-mural students. Extra-mural students are accepted, usually for a limited programme, subject to the approval of the Bd. of Studies, but may not take courses in Med., Sc., Arch., or Engin., or any course in Arts involving oral, practical, or lab. work. Extra-mural registration in Arts is limited to students resident in Manitoba,

and a minimum of 1 yr.'s attendance at this or another approved Univ. is exacted before the B.A. is conferred.

A UNIT SYSTEM has been adopted in the Arts and Science Faculty, the unit being "a body of work to which is assigned for instructional purposes one hour of lecture or other class-room exercise per week or one continuous laboratory period of 2 or 3 hours per week, throughout an entire session, or the equivalent." 40 units of credit in the "Junior Division" (work normally done in first two sessions) and 32 in the Senior Pass Division (for Honours, 48 in the Senior Honours Division) are required for the degree. For the B.A.—English (2 yrs), a foreign language (2 yrs), Maths. (1 yr), and History (1 yr) are compulsory.

The M.A. may be obtained by candidates possessing the Honours B.A. of Manitoba, or an equivalent degree, by an extra year of full-time study under the direction of a committee of instructors. Candidates for the M.A. possessing the pass B.A. of Man., or an equivalent degree, must first obtain 16 units of credit in Honours Courses. A thesis is required as well as examn.

The M.Sc. requirements are at least one yr's grad. work in one or more of the Sc. depts. of the Univ. (incl. Maths.) or in the dept. of Civil Engin. or that of Elect. Engin., an examn. and a thesis. Candidates for the M.Sc. possessing the pass B.Sc. of Man., or an equivalent degree, must first obtain 16 units of credit in Honours Courses. While taking the LL.B. course a student may simultaneously obtain the Law Society's qualification for practice. An extra-mural course in Law may be taken by students residing in Manitoba elsewhere than in Winnipeg or environs, and by graduates in Arts of an approved Univ. residing elsewhere. The LL.D. is honorary.

In the B.Sc. Engineering courses summer work and thesis relating thereto are required.

2 yrs' service in an Architect's office following graduation (B.Arch.) will qualify for licence to practise.

**DIPLOMAS** Pharmaceutical Chemistry (2 yrs' course); Agriculture (3 yrs); Home Economics (2 yrs). In *Dentistry* the Univ. is the sole examining body in the province. The Univ. conducts examns. for admission to the Man. Assoc. of Graduate Nurses, to the practice of *Accountancy* and membership of the Inst. C.A. of Manitoba, to the practice of *Architecture* and membership of the Man. Association of Archts., also qualifying examns. for the Man. Civil Service.

**FEES.** Tuition and examn. in Arts and Sc., \$80 p.a.; Engin. and Arch., \$110; Pharm. Dipl. course, \$90; Degree course (4 yrs.), \$80, \$90, \$90, \$90; Med., 1st, 2nd, 3rd, and 4th yrs., \$185, 5th yr., \$60; Law, \$108. Licence to practise Med., \$100. Agr. Dipl. course, \$28; Degree course, \$40 (1st and 2nd yrs.) and \$65 (3rd and 4th yrs.); Home Economics, Degree course, \$40, \$40, \$65, \$65.

**SCHOLARSHIPS** for graduates: 2 Travelling Fellowships, each \$400, offered each yr.: one to a graduate in Arts, and, in alternate years, one in Science and one in Engineering, tenable at some other seat of learning; Research Fellowship, \$1500 annually in Sc.

**RESIDENCE.** Hostels at all affiliated Arts Colls. and Agr. Coll.

**INTERCHANGE** of teachers for a few days and conference annually with Univs. of N. Dakota, Sask., and Alberta.

**UNIVERSITY EXTENSION.** (1) Winter Evening Business courses in Acctcy., Comml. Law, English, Pol. Econ., etc., given partly by members of regular Univ. staff. (2) Popular lectures in numerous centres. (3) Radio popular

lectures, weekly. (4) Summer School. (5) A number of short courses at Man. Agric. Coll in Agric. Eng., Live Stock, Hort, Beekeeping, Dairying, etc.

PUBLICATIONS. *Calendars* (July), Matricn., and the several faculties, free; *Manitoban* (students' paper), weekly; *Annual Report*; *Historical Notes* (1877-1917); *Inaugural and Convocation Addresses*; *List of Faculty Publications*; *The History and Present Position of the University Site Question* (by Isaac Pitblado).

## THE YEAR 1927-28

BEQUEST. \$7000 from the estates of the late Dr. and Mrs. J. W. Spencer to establish a Scholarship in Geology

RESIGNATIONS. D. C. Harvey, Prof. of Hist, D. H. Verder (Engl.); W. Southworth, Prof of Field Husb., F B Hutt (Poultry Husb.); T. Jones, Asst. Prof of Anat; W G. Mackersie, Asst. Prof of Physiol.; Miss A. Marie Haynaud (French).

IMPORTANT CHANGES Degree Courses in Agriculture and H. Econ. changed to four yrs instead of five as formerly and annual session lengthened A Pre-architecture year in Arts and Science inaugurated

IMPORTANT EVENT. Celebration of the 50th Anniversary of the founding of the University.

HONORARY DEGREES LL D—The Right Rev. J G. Anderson; H Bourque, J G Gardiner, Premier of Sask; D A. Macdonald, Chief Justice; J McKay, Judge, Court of Appeal, Sask, S P Matheson, Archbishop of Rupert's Land and Chancellor of the University, E W Montgomery, Minister of Public Health, Manitoba, D A Stewart, A. Edgar, E Loftus; J. A. Machray

STUDENTS Full-time. total, 2437, graduates, 6, preparing for first degree in Arts or Pure Science, 1549, Med 270; Law, 49; Engin and Archit., 221, Pharm. (dipl), 42; Agric and Home Economics, 194. Resident in hostels, 457. Part-time total, 310, including grad students, 84 Summer School, 774, Extension Courses, 660, extra-mural students in Arts and Science, 308; in Law, 2.

DEGREES. BA, 205; MA, 20, B.Sc, 12; B Sc (H Ec), 11; B.Sc. (C E.), 9; B.Sc. (E E), 17, B Sc. (Med.), 1, M Sc, 8; Ph.D., 1, B S A, 12; B.Arch, 3, LL.B., 16, M D, 49, LL D. (Honorary), 3.

Diplomas in Agr., 10, H Ec, 12; Pharm., 7.



# MONTREAL UNIVERSITY

PATRON—S E Cardinal G. VAN ROSSUM.

CHANCELLOR—S.G. Mgr. P. BRUCHÉSI, D.Th., Archbishop of Montreal ;

ACTING—S G Mgr GEORGES GAUTHIER, Archbishop of Taronna,  
Apostolic Administrator, O L. d'H.

RECTOR—Mgr. V -JOSEPH PIETTE, P A., C L. d'H

PRESIDENT—SIR LOMER GOUIN, LL.D , K C M.G., C. L. d'H.

PRESIDENT OF THE EXECUTIVE COMMITTEE—Hon. F. L. BÉIQUE, LL.D.,  
O. L. d'H.

VICE-RECTOR—Canon E CHARTIER, M ès A , L. ès L , D.Ph.

SECRETARY-GENERAL—E MONTPETIT, B.A , LL.D., K.C., D S.P. Paris,  
membre de l'Ac. roy. lang. et litt. françaises de Belgique, Chev.  
O. Léop , O. L. d'H.

TREASURER—O. ARCHAMBAULT.

LIBRARIAN—A. FAUTEUX, B.A.

## PROFESSORS, LECTURERS, ETC.

*Agriculture*, v. Affiliated Instns.

*Anatomy*, v. also Med His-  
tology

Mignault, L D , M.D. Prof

Delorme, L. N , M D Prof

Masson, P , M.D (A. Path ) Prof.

Virolle, E , M D. Lectr

*Applied Science*, v. Affiliated  
Instns

*Art, History of*

Lagacé, J. B , M A. Prof.

*Biology* [Prof.

Dalbis, L. J., D ès Sc. Paris

*Botany*

Victorin, Marie, D.Sc. Prof.

*Chemistry*, v. also Affiliated  
Instns

Baril, G. H , M.D. Prof.

Morin, L. J , M A , L. ès Sc. Paris  
Prof \*

Nadeau, H , L ès Sc. Paris Lectr.

Flahaut, J , L. ès Sc. Lille Lectr.

Riou, P. Lectr.

*Classics*

Chartier, Can E., M ès A , L. ès L.

Paris Prof.\*

Dombrowski, H , Ag des L Paris

(Prof of French Lit ) Prof

Maurice, O , D.Th , L ès L. Paris

Prof.

*Commerce*, v Affiliated Instns.

*Dental Science*

Dubeau, E , D C D. Prof.

Nolin, J , D C D. Prof.

Charron, E , D C D Prof.

Duhamel, J A , M D. Prof.

Dufresne, G A H , M D. Prof.

10 Profs agrégés, 8 Clinicians and  
Demrs.

*Economics*, v Social Sciences

*Engineering*, v. Affiliated Instns.

*English Lang and Lit.*

Atherton, W., LL.D. Prof.

*French Literature*, v. Classics

*Geography* [Prof.

Tessier-Lavigne, Y , L Sc Soc.

*Geology*, v. also Affiliated Instns.

Mailhot, A , I.C. Prof.

*History*

Bruchin, J., LL D., Lic Sc polit.

Paris

Prof. of Comml. and Genl. H.

\* Dean of the Faculty.

Groulx, L., M.A., D.Th	Prof.	Pelletier, G., LL.L. (Journalism)	
.....	Lectr.		Prof.
<i>Journalism</i> , v. Social Sc.		Fauteux, N (Journalism)	Prof.
<i>Mathematics</i>		Rinfret, F (Journalism)	Prof.
Beaupré, V. E., B.A., I C.	Prof.	Leduc, A., LL.L. (Journalism)	
Léveillé, A, B A. Lond.	Prof		Prof.
<i>Medicine</i> , v. <i>infra</i>		Saint-Pierre, A	Lectr
<i>Mineralogy</i> , v. Applied Sc.		Baudouin, J A., M.D.	
<i>Modern Languages</i>		Lectr (Applied Social Hygiene)	
Jasmin, H, D Ph, D Th, L.E S,		4 Profs agrégés.	
M A	Prof.	<i>Theology</i>	
<i>Musie</i>		Allard, R., D.Th	Prof
Letondal, Arthur	Prof	Yelle, E *	Prof
Poirier, Benoît	Prof.	Ferland, A	Prof
Charbonneau, J N		Duchemin, F, D Th.	Prof
Head of Schola Cantorum		Boileau, J	Prof
<i>Philosophy</i>		Gattet, B M, D Th	Prof
Forest, C, Th B, Ph M	Prof *	Gauthier, H, D Th.	Prof
Pineault, L., D Th, D Ph, M A		Allard, A	Prof
	Prof	Lesieur, R	Prof
Forest, C, Ph M	Prof	McShane, G, D Th	Prof
Gauthier, O, D Th, Ph D	Prof	Maurault, O	Prof
Jasmin, L.-D., B A., Ph.D, LL D.		Ouellette, J -B	Prof
	Prof.	Desrosiers, J -B	Prof
Lamarche, A, D.Th, D Ph.	Prof.	Thibault, E	Prof
Vanier, G, B A, LL L	Prof	<i>Veterinary Science</i>	
Hébert, E, D Th, D Ph.	Prof	Daubigny, T, M V.	
<i>Physics</i>		Director of the School &	Prof.
Gendreau, E, L ès Sc	Paris,	Généreux, D, M V	Prof
Ph D., M D.	Prof.	Lorrain, L P H, M V	Prof
Demers, J., B A	Lectr.	Dauth, A, M V.	Prof
<i>Physiology</i>		6 Profs agrégés	
Asselin, E G, M D	Prof	<i>Law</i>	
<i>Social Sciences, Economics, and</i>		<i>Administrative and Munic L</i>	
<i>Politics</i> , v also Geog, Hist,		Baudouin, G, LL.D.	Prof.
and Law		<i>Civil L</i>	
Montpetit, E, K C, LL D, D S P.		Demers, Hon L. P., LL D,	
Paris		J. of High Ct.	Prof.
Prof of Econ, Pub Finance		Lafontaine, Hon. E, LL D,	
and Statistics, Director of		Ch. J. Ct. of App.	Prof.
the School.		<i>Civil Procedure</i>	[Prof
Baudouin, J. A, M.D.	Prof.	Taschereau, R., LL D, K C.	
Doré, V.	Prof	Genest, R, LL.D.	Lectr.
Vanier, G., LL L	Prof.		

<i>Comm. and Marit. L.</i>		<i>Hygiene</i>	
Perrault, A., LL D., K C.	Prof.	Vahn, N., M.D.	Prof.
<i>Const. L.</i>		Baudouin, J. A., M.D.	Prof.
Cousineau, Hon. P., LL D., J. of High Ct	Prof.	<i>Legal Med.</i>	
<i>Social Sciences, Economics</i>		Derome, G. W., M D.	Prof.
Montpetit, E., B A., LL D., K.C., D.S.P. Paris	Prof.	<i>Medicine</i>	
<i>Criminal L.</i>	[Prof.]	Guérin, J. J., M D., M.Ch., LL D.	
Morin, L. J. S., LL D., K C.		Dub., K C. St Gr	Prof.
<i>Financ., Comm., and Indust. L.</i>		Benoit, E. P., M.D.	Prof.
Pérodeau, Hon. N., LL.D.	Prof.	Dubé, E., M.D.	Prof.
Gounin, L. M., LL D.	Lectr.	Lesage, A., M D. (M and Path)	Prof.
Gérin-Lajoie, A., LL D.	Lectr.		
Fanbault, R., LL.L.	Lectr.	Bruneau, T., M D.	Lectr.
<i>Internat. L. and Hist. of L.</i>		Lebel, H., M D.	Lectr.
Lemieux, Hon. R., LL D., K C.	Prof.	Léger, A., M D.	Lectr. (M & Path).
<i>Notarial Procedure</i>			
Morin, V., LL D.	Prof.	Robichaud, P., M.D.	Lectr.
<i>Roman L.</i>		Riopelle, P. E., M D.	Lectr.
Beauheu, E., LL D., K C.	Prof.	Hamel, G., M D.	Lectr.
		Hébert, R., M D.	Lectr.
		Rouleau, A., M D.	Lectr.
		Verner, L., M D.	Lectr.
<i>Medicine (for subjects of the first 2 yrs — Anat., etc., v. supra)</i>		<i>Mental Diseases</i>	
<i>Bacteriology</i>		Tétrault, A., M D.	Prof.
Aubry, H., M D.	Lectr.	Lefebvre de Bellefeuille, G., M D.	Lectr.
<i>Contagious Diseases</i>		<i>Obstetrics</i>	
Leduc, J., M D.	Prof.	De Cotret, E. A. R., M D.	Prof.
Delvecchio, P., M D.	Lectr.	Langevin, S., M D.	Lectr.
<i>Deontology and History of Med.</i>		<i>Ophth., Ot. and Rhino-Lar.</i>	
Fortier, L. E., M D.	Prof.	Foucher, A. A., M D.	Prof.
<i>Dermatology and Syph.</i>		Boulet, R., M D.	Lectr.
Décarie, J. D., M D.	Prof.	<i>Pathology and Clin. Surg., v. also Med.</i>	
Archambault, G., M D.	Prof.	Parizeau, T., M D.	Prof.
Toupin, J. R., M D.	Lectr.	Bourgeois, B., M D.	Prof.
<i>Gynæcology</i>		<i>Pediatrics</i>	
Harwood, L. de L., M D.	Prof.*	Masson, R., M D.	Prof.
Ethier, A., M D.	Prof.	Ferron, A., M.D.	Prof.
Trudeau, R., M D.	Lectr.	<i>Pharmacy</i>	
<i>Histology and Path. Anat.</i>		Contant, J., D Phm.	
Dalbis, L. J., D S Paris	Prof.	President of the School &	Prof.
Prifontaine, Dr		Larose, A. F., L.Ph.m.	Prof.
		Laurence, A. J., L Phm	
		Sec.-Dir. of the School &	Prof.

\* Dean of the Faculty.

Lancetot, H., L Phm.	Prof.	Ethier, E., M.D.	Prof.
Vadboncœur, E., L Phm	Prof.	Saint-Jacques, E., M.D	Prof.
Quintin, A. D., L Phm.	Prof.	Hingston, D., M D.	Lectr.
Boutin, J., L Phm.	Prof.	Demers, A., M D.	Lectr.
Flahaut, J., L. ès S Lille	Prof.	Gagnon, A., M D	Lectr.
Pilon, H., L.Ph.m.	Prof.	Dufresne, E., M D.	Lectr.
6 Profs. agrégés.		Derome, A., M D.	Lectr.
<i>Phthisiotherapy</i>		Saint-Pierre, A., M D	Lectr.
.....	Prof	Derome, W., M D	Lectr.
Jarry, A., M.D.	Lectr	Paré, A., M D.	Lectr.
Verschelden, L., M D	Lectr	Roy, J. N., M D.	Lectr.
<i>Propædeutics</i>		Blagdon, L., M D	Lectr.
Hébert, R., M D.	Prof	Rhéaume, P. Z., M D	Prof.
<i>Radiology, etc</i>		<i>Therapeutics</i>	
Panneton, J. E., M D	Prof	Masson, D., M D	Prof
Pariseau, L., M.D.	Lectr	Fortier, L. E., M D.	Prof.
<i>Surgery, v. also Path.</i>		Bourgoin, J., M D	Prof.
Mercier, O. F., M.D.	Prof.	Mignault, G. E., M D	Lectr.
Marien, A., M D	Prof	<i>Toxicology</i>	
		Derome, W., M D	Prof.

## AFFILIATED INSTITUTIONS

AGRICULTURAL INSTITUTE at Oka, about 30 miles from Montreal, founded 1893 by the Trappist Fathers of Oka. Director, R. P. Leopold. 16 other Profs. of *Ag. Botany; Animal Biology and Hygiene; An. Industry; An. Pathology and Bacteriology; Apiculture, Arboriculture; Aviculture; Buildings and Accounts, Chem., Geol. and Mineral; Fruit and Flower Gardening; Kitchen Gardening; Large-scale Farming and Machinery, Maths.; Physics and Drawing; Soils, Zoology and Rural Economy.* 8 other Supts of Practical Work.

APPLIED SCIENCE, including Engineering and Architecture. The École Polytechnique, which was founded in 1874, is subsidized by the Govt. of the Province of Quebec and the principal Railways of the Dominion. Principal, A. Boyer. Director, A. Fillion. 21 Profs of *Architecture, Chemistry, Drawing, Electricity, Electro-technics, Electrochem., Electro-met., Engineering—Civil, Elec, Mech. and Sanit., Geodesy, Geology, Geometry, Heating, Hydraulics, Industrial Chem., Industrial Legisl., Indust. Technology, Maths., Metallurgy, Mineralogy, Mining, Physics, Railways, Surveying, Thermodynamics, Ventilation.* 14 Hon'y. Profs.

COMMERCE. École des Hautes Études Commerciales. Created by the Provincial Govt in 1907. Director, Prof. H. Laureys. 20 other Profs. of *Accountancy, Banking, Chemistry, Customs Legislation, Economics, English, French, Geography, History, Insurance, Italian, Law, Maths., Math. Physics, Publicity.* 3 Hon'y. Profs.

CONSERVATOIRE NATIONAL DE MUSIQUE.

COLLEGE OF OPTOMETRY.

RADIUM INSTITUTE, affiliated with L'Institut Pasteur (Paris).

ENSEIGNEMENT SECONDAIRE OU CLASSIQUE. 'Twelve Colleges for boys are affiliated to the Univ. under conditions providing for a 4 yrs.' High School

course followed by a 4 yrs.' College or Arts course, on the completion of which a student may qualify by examn. for a diploma admitting him to professional studies in the Univ. The École d'enseignement secondaire pour les Jeunes Filles provides similar College courses for girls organized in French, English, and Special (Arts d'Agrément, Commerce, Pol. and Soc. Econ., Domestic Science) sections.

## GENERAL INFORMATION

Established, as a branch of Laval, Quebec, in 1878, with Faculties of Theology and Law, to which were added Medicine in 1879 and Arts in 1887. Since 1889 this Institution has been practically independent of, though receiving its degrees from, Quebec, and on Feb. 14, 1920, it was incorporated under its present name by an Act of the Provl. Legislature. In 1920 Faculties of Pure Science and of Letters and a School of Social, Economical, and Political Sciences were formed; in 1921 the School of Dental Surgery was made a separate Faculty, and the Conservatory of Music was affiliated; in 1922 the Faculty of Philosophy was created. A Radium Institute was created in 1923. The general administration is conducted by a Senate, Commissions of Admn. and Studies, Univ. Council and Exec. Committee. Endowments: \$4,000,000 from a national subscription (1920), \$1,000,000 from the Provl Govt., and \$1,000,000 from the Seminary of St. Sulpice.

**LIBRARY.** 125,000 vols. Each Faculty and School has the necessary teaching collections and laboratories.

**FACULTIES.** Theol. (constituted by the Grand Seminary of St Sulpice), Philosophy; Law; Med.; Letters; Sciences; Dental Science. Incorporated in the Univ. are Schools of Vet. Med., Pharmacy, and Social, Econ. and Polit. Science.

**DEGREES AND DIPLOMAS.** Courses in the incorporated and affild. institns. include—a 4 yrs.' course in the Éc. Polyt. for the B. ès Sc. App.; 3 yrs. in the Éc. de Méd. Comp. for the D. en Méd. Vét.; 4 yrs. in the Éc. de Ch. Dent. for the D. en Ch.D.; 4 yrs. in the Éc. de Phm. for the B. en Ph. and D. en Ph.; 4 yrs. in Inst. Agric. d'Oka for the B. en Agr. and D. en Sc.Agr.; 3 yrs. in the Éc. des H.E. Comm for a Diploma.

**PUBLICATIONS.** *Annuaire Général*, *La Revue Trimestrielle Canadienne*.

## THE YEAR 1927-28

**INTERCHANGE OF TEACHERS.** Prof. Montpetit gave a course on Canada at Bruxelles from Feb to May. Lectures by . E. Gibson, Prof. at La Sorbonne; Dr. E. Sergeant, Prof. at Faculté de Médecine de Paris; Dr. G. Ribaud, at l'Univ. de Strasbourg; Dr. M. Javilliers at l'Institut Pasteur; L. Brillon, Prof. at Wisconsin Univ.

**DEATHS** Dr. A. Bernier, Prof. of Bact.; Dr. J. Demers, Path.; Dr. J. Gendreau, Dental Faculty; Joseph Haynes, Prof. at Polytechnic School.

**HONORARY DEGREE.** LL D —E. Dorval.

**STUDENTS.** Full-time, preparing in colleges for baccalaureate, 6264.

**DEGREES.** B.L., 27; B.S., 6; B.A., 198; L.Th., 7; B.Th., 6, B.D. Can., 9; LL.L., 13; LL.B., 28; M.D., 36; L. ès S., 10, B.C.P., 9; D.C.D., 21; D.M.V., 3; B.S.Ap., 10, B.S.A., 9; L.S.Com., 19; B.Sc.C., 3; B.Chm., 198; B.Opt., 3.

# MOUNT ALLISON UNIVERSITY, SACKVILLE, N.B.

CHAIRMAN OF THE BOARD OF REGENTS—R. C TAIT

PRESIDENT OF THE SENATE—G J. TRUEMAN, M.A., Ph.D. (Col.).

SECRETARY AND LIBRARIAN—Prof F W W DES BARRES, B A

REGISTRAR—Prof W. M TWEEDIE, M.A.

## PROFESSORS, LECTURERS, ETC.

<i>Biology</i>	[Prof	<i>English Lang and Lit.</i>	
Fraser, R., B S Guelph , M A Tor		Tweedie, W M , M A Lond	
2 Assts.			Allison Prof
<i>Chemistry</i>		Hemmeon, Ellen C B , M A	
Bigelow, H. E , Ph D Harv Prof		McGill	Lectr
MacNevin, W M , B Sc Instr		<i>French and Greek</i>	[Prof
3 Assts.		Delano, C C , Ph D New York	
<i>Classics</i>	[Wood Prof	<i>History</i>	
Cohon, J. W , Ph D. Princeton		Des Barres, F W. W., B A Prof	
Wall, Georgie M , B A Mt A		<i>Household Science</i>	
	Instr	Chown, Olive, M A , B Sc Col.	
<i>Commerce and Economics</i>			Head of Dept
Guy, N M , M A Harv Prof		<i>Mathematics</i>	[Prof.
<i>Education</i>	[Prof	Hunton, S W , B A. Lond , M A	
Trueman, G J , M A , Ph D Col		<i>Philosophy</i>	[Massey Prof
Holmes, S D , B A , B Pæd Tor		Liddy, R B , B D , Ph D Tor	
	Prof	<i>Physics</i>	
<i>Engineering</i>		MacGregor, D G , B A. Ox Prof.	
McKiel, H. W , B A , B Sc Qu.		Johns, C. F.	Instr.
(Mech.E.) Prof		1 Asst.	
West, F L , M A , B Sc. McG Prof			
Lusby, G. R , B Sc. Instr.			

## GENERAL INFORMATION

The UNION CHURCH of Canada now controls the administration, which is, however, conducted on strictly non-sectarian principles; a considerable number of the students belong to other religious denominations. The Univ. is named after C. F. Allison, founder (in 1843) of "Mt. Allison Wesleyan Academy," the Trustees of which were, by an Act of the Legislature of N.B. in 1858, authorized to establish as a degree-conferring institution, "Mt. Allison Wesleyan College." This name was changed in 1886 to "Univ of Mt. Allison Coll." and in 1913 to "Mt. Allison Univ." In 1903 the McClellan School of Applied Science was opened in the Univ.

**LIBRARY**, 30,000 vols. **Engineering WORKSHOPS** with gasoline engine, etc.

**FACULTIES.** Arts, Science, School of Applied Science, Dept. of Household Science.

**DEGREE COURSES.** 3 yrs., B.Mus.; 4 yrs. (from "Junior" Matricn.), B.A., B.Sc. "Senior Matricn." Certifs. (*e.g.* N.S. Provl. Educn. Dept., grade A) admit to 2nd yr. of B.A. or B.Sc. course; Prince of Wales Coll. High Honour Diploma to 3rd yr V also p 341

**HIGHER DEGREES.** Open to B.A. of 1 yr.'s standing, M.A., to B.Sc. of 1 yr.'s standing, M.Sc.; Honorary, D.D., LL.D., D.C.L.

**CERTIFICATES.** Applied Science, 3 yrs.' course (may be taken as part of 3rd and 4th yrs. of B.A. course); Finance and Com., 2 yrs.

**FEES**, tuition and registration, annual: Arts, \$90; Engin., \$120.

**RESIDENCE.** Accommodation in the Univ. for 140 men and 60 women students. Board and lodging, \$240 p.a.

**PUBLICATIONS.** *Calendar* (July); *Argosy* (students'), and *Mt. Allison Record*, monthly.

## THE YEAR 1927-28

**HONORARY DEGREES.** LL.D.—J. Trucman, S. P. Whiteway.

**STUDENTS.** Full-time, 317, including 5 grads. Extra-mural and Summer School, 176.

**DEGREES.** B.A., 34; B.Sc., 12; M.A., 1.

# UNIVERSITY OF NEW BRUNSWICK, FREDERICTON

VISITOR ON BEHALF OF H M. THE KING—THE LIEUT.-GOVERNOR OF  
NEW BRUNSWICK

CHANCELLOR—C C JONES, M A., Ph D, LL.D

PRESIDENT OF THE SENATE—W. S CARTER, M A., LL D, D.C.I.

REGISTRAR—HAVELOCK COY, M A.

## PROFESSORS AND LECTURERS

<i>Chemistry</i>	[Prof.	Hughes, P J, B A.	
Cameron, A, M A., B.Sc. St And.		Lectr (Torts, Crimes)	
<i>Classics and Anc. Hist.</i>		Winslow, J J F, B A.	
Raymond, W T, B A, B A		Lectr (Procedure)	
Harv, LL D Dal.	Prof.	At St John	
<i>Engineering</i>		Hazen, Sir Douglas, C J,	
Turner, E. O, S B. Mass I Tech		K C M G, B A, LL D.	
(Civil E)	Prof.	Dean of Faculty.	
Stephens, J, M A, M A I Dub,		McInerney, H O, M A, B C L	
M I C. E I (Mech E and		Prof.	
Drawing)	Prof	15 Part-time Lectrs	
<i>Engineering, Electrical</i>			
Baird, A. F., M Sc.	Prof.	<i>Mathematics</i>	
<i>English and Mod. Hist</i>		The Chancellor	Prof.
.....	Prof.	.....	Asst Prof
<i>Forestry</i>		<i>Natural History and Geol</i>	
Webb, H. P., M.Sc.	Prof.	Cox, P, B A., B Sc., Ph D.	Prof
Fieger, B W, B Sc	Asst Prof		
<i>French and German</i>		<i>Philosophy and Economics</i>	
Pugh, R W. B., B.A Ox.	Prof.	Kierstead, W C, Ph D Chic.,	
<i>Law</i>		M.A	Prof.
Richards, C. D, B A.			
Lectr. (Contracts and		<i>Physics</i>	
Real Property)		Hachey, H B, M Sc. McG.	Prof.

## GENERAL INFORMATION

The " College of New Brunswick " was incorporated in 1800 by Provincial Charter, re-incorporated in 1828 by Royal Charter as " King's College," and merged in 1859 in the Univ. of N.B. established in that year. A Faculty of Law was established in 1923 in St. John, taking over, with some changes, the work of the former King's College Law School. The Provincial Govt. appoints the Chancellor and a majority of the governing body, called the Senate, of which the Chief Supt. of Education for the Province is *ex officio* President. The annual grant from Provincial revenues is \$25,000.



**LIBRARY** 14,000 vols. **MUSEUMS** Natural History (rich in birds). **LABORATORIES**: Bot., Chem., Engin., Geol. Phys., Psych. **OBSERVATORY**: Telescope with 6" clear aperture.

**DEPARTMENTS.** Arts, Applied Science (Engineering and Forestry), Law.

**DEGREE COURSES.** 4 yrs. (from "Junior" Matricn.), B.A., B.Sc. (in Pure Science, Engin. or Forestry). 3 yrs., B.C.L. The "Senior" Matricn. (or equivalent) Certif. admits to the 2nd year. The first 2 yrs. in Engin. are arranged to suit candidates for licences as Land Surveyors.

**HIGHER DEGREES.** Open to B.A. of 2 yrs.' standing, M.A.; to B.Sc. in Pure Science of 2 yrs.', in Engin. or For. of 3 yrs.' standing, M.Sc.; to B.A. of 6 yrs.' standing, B.C.L.; to B.C.L. of 5 yrs.' standing, D.C.L.; D.Litt., D.Sc., LL.D. (Hon.).

**FEES**, tuition, annual: Arts, \$86, Engin. or Forestry, \$120.

**PUBLICATION.** *Calendar* (January).

## THE YEAR 1927-28

**BENEFACTIONS** Beaverbrook Memorial Residence given by Rt Hon. Lord Beaverbrook and the late Lady Gladys Beaverbrook, also \$200,000 from Provincial Government to provide accommodation for Department of Geology and Forestry and the Library, \$15,000 supplementary grant from Govt

**HONORARY DEGREES.** LL.D — Prof H O McInerney, Hon C D. Richards, Sir Thomas Tait. D Sc — L L Street

**STUDENTS.** Full-time Arts and Pure Science, 260; Law, 9

**DEGREES** B A, 18; B Sc, 19 (including 14 in Engineering and 5 in Forestry); M Sc, 2; B C L, 4

# UNIVERSITY OF OTTAWA

APOSTOLIC CHANCELLOR—H G THE ARCHBISHOP OF OTTAWA.

RECTOR—F U. ROBERT, D D.

REGISTRAR—A. JASMIN, Ph.D.

TREASURER—A D MCGOWAN, B L

PREFECT OF STUDIES—J. GRAVEL, B A.

PREFECT OF DISCIPLINE—J. CHARTRAND.

## PROFESSORS

[a = Arithmetic, c = Classics, e = English, f = French, h = History,  
m = Mathematics, p = Penmanship, r = Religious Knowledge]

Barolet, W —f	Laframboise, H —c, c, m
Beaulieu, J —e, f, h, m, p, Music	Lajeunesse, J A, M A —Nat Sc., Pedagogy
Bédard, R, B A, Ph L —f, m, Geog	Lamoureux, R, Ph D.—Pedagogy
Bergevin, L —c, r.	Laplante, L, B A —m
Berlinguette, A —h, r	Latulipe, E —c, f, m
Bétournay, A, Ph L —c	Leblanc, R, Ph D —Philos, r
Bradley, F, M A —c, c	Lebrun, R —c, f, h
Brunet, A —f, c	Leclerc, A —f, m
Cadieux, J.—e, r, p.	Legault, R —Business
Caron, A —r	Létourneau, R —f, m, Geog
Caron, D —f, m, h, p	Logan, J.—p
Cary, A —c, r, Econ.	Maillette, A —f, m
Chartrand, J.—e, f, r	Maroney, J —c, m
Cornellier, P, B A, Ph D, Th D —r.	Matte, H —Philos
Cunningham, E, c, e.	Marchand, G, Ph D, Th D —r
Deschamps, T.—r, f.	Martel, G.—m.
Deschatelets, L —r.	Morin, A, B Sc —c, f
Desnoyers, A., Ph D —r	Muir, H —c, f, h, m
Dubé, H, Ph D., D Sc. —m, Physics, Astron	Nullès, Th D —r, Pol Econ. and Const Law
Dubois, N.—c, f.	O'Toole, E —c, e
Fusey, A., Ph L —c, f, r	Paquette, A —f, r, Geog.
Gravel, J.—c, r.	Pelletier, A.—c
Guertin, A.—f, h, r.	Pelletier, L. P, Ph.L.—e.
Hayden, W.—e, m	Perruisset, L., D.Ph.—h, Philos
Hébert, J, Ph.L, Th.L —c, r.	Poulet, D, L Ph —Philos., r.
Jacques, A —h, m, r	Poupert, H, Ph D, Th D —m, Physics
Jasmin, A.—h, r, Philos	Quigley, F. J —e
Julien, O —e, f, h, Stenography, p.	Renaud, E., Ph.D.—Chem., m, f, r.
Ladouceur, L.—c.	Royal, E.—e, f, h.

St -Denis, H., B A., Ph D , Th D. —r, c	Thivierge, E.—f, h. Toupin, A —r, f
St -Denis, R , B A , Ph L —Peda- gogy	Véronneau, A , M.A.—c, f. Verville, E., Ph.L.—f, c.
Scheffer, P.—r.	Villeneuve, R , D Ph.—r.
Sénécal, R.—Business	Voyer, O —f.
Simard, G., Ph.D —Eccl. Hist.	Watson, E , B A , Ph L.—Peda- gogy
Tassé, A.—Music.	

## GENERAL INFORMATION (v. Canadian Univs.)

The "College of Bytown," incorporated in 1849, changed its name in 1861 to "College of Ottawa," and became in 1866 the Univ. of Ottawa with power to grant degrees. By a papal brief dated Feb. 5, 1889, it was accorded the status of a Catholic University. The Univ. is conducted by the Oblate Fathers of Mary Immaculate.

**AFFILIATED INSTITUTIONS** 4 Convents, a Seminary and 2 Academies at Ottawa; St Joseph and Sacred Heart Academies at Hawkesbury, Ont; College of Sacred Heart, Gravelbourg, Sask; College Mathieu, Gravelbourg, Sask

**LIBRARY**, 25,000 vols. The Parliament Library, to which students have access, has 300,000 vols. **MUSEUMS** In the Univ.—Geol.; access also to Geol. Survey Dept. Museum. The Dominion Observatory and Canadian Fisheries Museum are located in Ottawa. **LABORATORIES** Chem., Phys., Mineral.

**DEGREES, ETC.** B.A., M.A., B.L. (Lit), B.Phil., B.Th., D.Th., LL.D. (Hon.), Lic. Phil., D.Phil., Lic. Th. The Arts course leading to the B.A. or B.L. covers 4 yrs., the work of the Fourth to the Seventh "Forms," that of the first 4 Forms being preparatory to matricn. Extra-mural students may appear for examn. without attending classes in the Univ. for more than 1 yr. The B.A. exempts law and medical students from Prelim. Examns. and entitles the former to a reduction of 2 yrs. of the ordinary 5 yrs.' course. The B.Th. and the L.Th. involve respectively 2 and 3 yrs.' study of Theology after the completion of a classical course; the B.Ph. and the L.Ph. respectively 3 and 4 yrs.' study after matricn. Marks assigned for the exercises of students are read in public once a month, and monthly reports are sent to parents.

**FEES.** For Tuition and Board Residence per half-year, \$300. Degrees from \$5 to \$75.

**RESIDENCE.** Students whose homes are not in Ottawa are required to live in the Univ. building, where they are subject to strict discipline—e.g. no book or newspaper may be introduced without having been previously examined and approved of by the Prefect of Discipline.

## THE YEAR 1927-28

**NUMBER OF STUDENTS.** Faculty of Theology, 87; Philos., 99; Arts, preparatory course, 1048.

**DEGREES.** B.A., 37, M.A., 3; B.L. (Lit), 3; D Lit., 3; B.Ph., 24; L.Ph., 18; Ph D., 4, B.Th., 4, L.Th., 3, D.Th., 2; LL.D., 2.

# QUEEN'S UNIVERSITY, KINGSTON, ONTARIO

CHANCELLOR—Rt. Hon Sir ROBERT L BORDEN, G.C.M.G., P.C., K.C.

PRINCIPAL AND VICE-CHANCELLOR—R BRUCE TAYLOR, M A, D D,  
LL D

RECTOR—W. H. COVERDALE, LL D

REGISTRAR AND TREASURER—W. E McNEILL, M A, Ph D

DEPUTY REGISTRAR—ALICE KING

LIBRARIAN—E C KYTE

DEAN OF WOMEN—HILDA C. LAIRD, B A.

## PROFESSORS, LECTURERS, ETC.

### *Accounting*

Walker, C. E., C A Assoc Prof

Smales, R. G. H., A.C.A. Assoc Prof

*Anatomy*, v. also Med—Obs.,  
Surg.

Matheson, D C, M B. Prof.

2 Fellows, 1 Demr.

*Banking*, v Pol Econ.

### *Biology*

MacClement, T. W., D Sc. Armour

Inst., M.A. Allan Prof

Earl, R. O, M Sc. Chic., B A.,

Ph D Chic Asst Prof

Klugh, A. B, M A, Ph.D Corn

Asst Prof.

MacRae, M, B A Queen's

Part-time Asst

*Chemistry*, v. also Engin. [Prof

Neish, A C, M.A., Ph.D Col

McRae, J. A., M A, Ph D, F I C

Prof

Frost, G. B., B.A. Tor., Ph D Cal.

Asst. Prof.

Cadenhead, A F. G., B A. Lectr.

Dorrance, R. L, B A. Tor. Lectr.

12 Tutors.

### *Chemistry, Biological*

Logan, J F., B A. Acadia, Ph.D.

Yale Assoc Prof.

### *Classics*

Callander, T., M A Aberd and Ox

(Greek) Prof.

Law, T E, B A Lond and Ox.

Lectr

Jolliffe, R. O, Ph D Chic. (Latin)

Prof

Tracy, H, B A., Ph D Prof

Macdonnell, Mary L, M A

Lectr in Latin.

*Commerce*, v also Accounting

Curtis, C. A, B A Tor, Ph.D.

Chic Asst Prof

*Economics*, v Polt.

*Engineering*, v. also Mining

Macphail, A J., C.M.G., B Sc.

(General E) Prof

Arkley, L. M, M Sc. (Mech. E)

Prof.

Goodwin, L. F., Ph.D. Heid.,

A C G I, F.I.C. (Indust and

Chem. E) Prof.

Wilgar, W P., B Sc (Civil E) Prof

Malcolm, L, M A., B Sc (Munic.

E) Prof.

Jemmett, D. M, M.A., B Sc.

(El. E.) Prof.

Ellis, D. S., M.A., B.Sc. (Civil E.)

Assoc. Prof.

- Rutledge, L. T., B A Sc. (Mech E )  
Assoc. Prof.
- Jackson, A., B Sc. (Draughting)  
Asst Prof
- Morgan, S C , B.Sc. Asst. Prof.  
9 Tutors, 7 Demrs , 3 Instrs.
- English* [Prof.  
Clarke, G. H., M.A. McM , D.Litt.  
Roy, J A , M A. Edin. Prof.  
Alexander, H., M.A. Liv.  
Assoc. Prof.
- Gordon, Miss W., M A. Asst. Prof.  
Irvine, M, B A Lectr  
Cumberland, R W., M A  
Half-time Lectr  
6 Tutors
- French* [Prof.  
Campbell, P. G C , M.A. Ox.  
Walter, Felix B. A , M A McG  
Asst Prof  
Conacher, W. M , B A. Lond  
Asst Prof  
McConnell, Mme. B. S. Instr.
- Geology* [Prof.  
Baker, M B , B A , B.Sc., F.G.S.A.  
Rose, B , Ph D. Yale, B Sc.  
Assoc Prof
- German*  
Macgillivray, J., B A Tor , Ph D  
Leip Prof  
Laird, Hilda C , B A Queen's  
(Dean of Women) Lectr
- Hebrew*, v. Semitic
- History*  
M'Arthur, D. A., M A  
Prof. of H. and Douglas  
Prof of Colonial H.  
Prince, A E., M A Ox. and Manc  
(English H.) Assoc. Prof.  
Trotter, R., B.A. Yale, M.A., Ph D.  
Harv. Assoc. Prof.  
Pritchett, J P , M A Stan  
Lectr
- Italian*, v. Romance
- Mathematics*  
Matheson, J , M A., Dean of the  
Faculty of Arts Prof.
- Gummer, C. F., M.A. Ox., Ph.D.  
Chic. Prof.
- Miller, Norman, Ph.D. Harv., M.A.  
Prof.
- Johnston, K. P., M.A., B.Sc.  
Asst. Prof.
- Cooper, D A , B A Lectr.  
Newlands, Mrs Etta, M A. Instr.  
8 Tutors.
- Medicine*, v. *infra*
- Metallurgy*  
MacKay, G. J., B Sc Prof.  
Carson, O. A., M.A. Col., B.Sc.  
Lectr.
- Nute, C W , B Sc Asst
- Mineralogy*  
Bruce, E. L , M A., Ph.D. Col.,  
B A. Prof.
- Mining Engineering*  
Graham, S N , B Sc Prof.
- Philosophy*  
Humphrey, Geo., B A. Ox , Ph D.  
Harv Prof.  
Jackson, R , M A Ox  
Assoc. Prof.
- 1 Tutor.
- Physics* [Prof.  
Clark, A. L , B Sc. W.P.I , Ph.D.  
Dean of Fac. of App Sc.  
Baker, W. C , M A (Expl. P ) Prof.  
Gray, J. A., D.Sc. Manc.
- Chown Research Prof.  
Robertson, J. K , M A Tor. Prof.  
Flammer, E , B.Sc. Calif , Ph D.  
Harv. Assoc. Prof.  
Ball, W. V., B A.Sc. Tor. Lectr.  
Thomson . . . Lectr.  
2 Tutors.
- Physiology*  
Melvin, G. S., M.D. Aberd. Prof.  
Ettinger, G. H., B.A., M.D., C.M.  
Lectr. in P. and Embryol.  
(on leave of absence).
- Lindsay, K., M D. Lectr.  
1 Fellow.
- Political and Econ Science*  
Mackintosh, W. A., Ph.D. Harv.,  
M.A. Macdonald Prof.

- Prentice, J. S., M A                      Lectr  
 Knox, F. A.                                Lectr.  
 Inman, M. K., M A Acad, Ox,        Lectr  
                  Harv  
 3 Tutors in Econ and Banking.  
     *Romance Lang and Lit*, v. also  
                  French  
 Brovedani, J. H., D ès L Rennes  
                  Prof of Span & Ital  
 McNeill, Caroline E., M A. Instr  
     *Semitic Langs and Lit* |Prof  
 Jordan, W G, B A. Lond, D D  
     *Spanish*, v Romance  
 Medicine (for subjects of the first  
     2 yrs —Anat, etc, v. *supra*)  
     *Anæsthetics*, v. Surg.  
     *Bacteriology*  
 Reed, G. B., M A, B Sc, Ph D.  
                  Harv                      Prof.  
 Orr, J H, M D, C M                      Lectr  
     *Electro-Therapy*, v Mat Med  
     *Gynæcology*  
 Mylks, G W, M D                      Prof  
 Morison, M. J, M D                      Clin. Asst  
     *Materia Med*  
 Gibson, T. W, M D, M A., M B.  
                  Edin.                      Prof.  
 Jones, W. A, M D (Western)  
     (Lectr in X-ray and Physio-  
     Therapy)  
 Quigley, J. P, M A, M D,  
     M R C S. Eng, L R C P.  
     Lond (Lectr. in Electro-  
     Therapy)                      Asst. Prof  
     *Med Jurispr and Toxicology*  
 Gardiner, R. J., M.D., C.M. Lectr.  
 Rigney, T. J., B.A, K.C. Lectr.  
     *Medicine and Clin. Med*  
 Connell, W. T., M D, M.R C.S.  
     Eng, L.R.C.P. Lond. Prof.  
 Gibson, W., M D.  
                  Assoc Prof of M  
 MacCallum, E. C D., M.D., C.M.  
                  McG                      Assoc. Prof. of M.  
 Third, J R, B A., M D  
                  Clin. Asst.
- Macdonnell, P. M., B.A., M.D.  
                  Clin Asst & Historian  
 Hopkins, B. H, M B Tor. Lectr.  
 Bird, G. H., M.B.                      Clin. Asst.  
     *Obstetrics*  
 Williamson, A. R. B, M A, M.D,  
     M R C S Eng, L R C P.  
     Lond                      Prof  
 O'Connor, F J., M D, C M.  
     Clin Asst & Fellow in Anat.  
 Huyck, P H, M D                      Clin Asst  
 Elliott, C H, M D.                      Clin. Asst.  
     *Ophth, Ot, Laryng and Rhin*  
 Connell, J C, M A., M D. Prof  
 Cays, F A, M D, C M                      Lectr  
 Connell, H. C, B A, M D, C M  
                  Clin Asst  
 Folger, H P, B A, M D, C M  
                  Clin. Asst  
     *Pathology*  
 Miller, J, B Sc, M D Edin, D Sc.  
                  Birm                      Prof  
 Hay, W D, M A, M D, C M.  
     (Lectr in Clin Microscopy)  
                  Asst  
     *Pediatrics*                      [Prof  
 MacGregor, R R, M D, C M.  
     *Preventive Medicine*  
 Williamson, A R B, M A., M D.  
                  Prof.  
 Bennett, C W, M D, C M Lectr.  
     *Psychiatry*  
 Ryan, E., B A, M D, C M. (Assoc  
     Prof of Surg)                      Prof  
     *Surgery*  
 Austin, L J., M Ch Camb,  
     F R C S Eng Prof of Clin S  
 Etherington, F., C.M.G., M D  
                  Assoc. Prof.  
 Gardiner, R J., M D., C M  
                  Asst Prof.  
 Keyes, S. J, M D., C M. (Lectr.  
     in Anæsthetics)                      Asst Prof.  
 Sparks, J F, B A, M D, C.M.  
                  Asst Prof. of S. and  
     *Appl Anat*  
 Bogart, I. G, M D, C.M.  
                  Assoc. Prof

## AFFILIATED COLLEGE

QUEEN'S THEOLOGICAL COLLEGE. Principal and Prof. of Old Test. Criticism and Exegesis, H. A. Kent, M.A., D.D. 5 other Profs.

## GENERAL INFORMATION

On the initiative of the Presbyterian Church a Royal Charter was granted in 1841 for the establishment of Queen's College, Kingston, funds being provided by grants from the Church and from the Govt. and by private benefactions. To the original Faculties of Arts and Theology were added, in 1854 Medicine, in 1907 Education, and in 1916, by amalgamation with the Univ. of the School of Mining founded in 1893, Applied Science. In 1912 the Faculty of Theology was separately incorporated as "Queen's Theological College" in affiliation with the Univ. but controlled entirely by the Presbyterian Church. In 1920 the Faculty of Educn. was discontinued, the students being transferred to the Teachers' Training College, Toronto. Endowments amount to \$1,800,000.

The administration is vested in a Board of Trustees, composed of Chancellor, Principal and Rector, and representatives of the College, the Faculties, Graduates and Benefactors.

**LIBRARY**, 150,000 vols. (valuable Canadian Historical Section). The Douglas Library 72,000 volumes and pamphlets arranged for quick reference, and including many scarce books and early editions of valuable historical works. The Reading-room has over 4000 volumes on open shelves, and 750 periodicals are taken. The Lorne Pierce collection of Canadiana is among the best, and the Shortt-Doughty collection of pictures and portraits of Canadian interest is the best in existence. **MUSEUMS** Herbarium (35,000 spec.), Geol., Mineral., Ethnol. (rich N. American stone age collection). **LABORATORIES**, including important School of Mines buildings. Biol. (accommodating 220 students), Chem., Geol., Physics, Engineering, Mining, Metall., Mineral. **OBSERVATORY** with 6" telescope. **HOSPITALS** available for clinics, 2 general, 1 for insane. Easy access to important locomotive shops, dry docks, canal locks, water-power stations, mines, metallurgical works. Exceptional natural facilities for Geol. study.

**FACULTIES.** Arts, Applied Science, Medicine. The Senate includes representatives of the Theol. College also.

**DEGREE COURSES.** Four years, B.A., B.Com., B.Sc. (in Engin.—Civ., Mech., Elec., Mining and Metall., Chem. and Metall.—Analyt. and Applied Chem., Mineral. and Geol., or Physics), 6 yrs., M.D., C.M.

Combined courses . 6 yrs., B.A. and B.Sc., B.A. and B.D.

For teachers in schools and others unable to pursue the full degree courses in Arts at the Univ. extra mural instruction is provided by correspondence conducted by a staff of tutors. All students proceeding to the degree must take in residence 9 of the 19 courses required for the Pass degree. Some of these may be covered at the Summer School of 7 weeks during July and Aug., but the examinations written are the regular Sept. exams as set for all students.

**Banking** Courses leading to diplomas of Associate or Fellow of the Canadian Banking Assocn. Tuition given by correspondence to members of Canadian Banks.

By agreement with the Can. Institute of Chartered Accountants, Toronto, the tuition of their course, leading to the C.A. certifi., is given by the Univ.

**HIGHER DEGREES.** M.A. (1 yr. graduate course); M.Sc. (1 yr. course and 2 yrs.' professional practice); Ph.D. (3 yrs.); D.Sc. (2 or 3 yrs.); D.P.H. (Doctor of Pub. Health); B.D. (3 yrs.' course or its equivalent); Honorary LL.D., D.D.

**DIPLOMAS.** Testamur in Theology (3 yrs.' course).

**FEES** (Class and Examn.) in Arts, \$70 p.a.; Science, \$130.

**FELLOWSHIPS.** Two of \$500 and two of \$250 open to Honour B.A. at Queen's and holders of equivalent degree elsewhere, for research in Faculty of Arts. One (\$500) may be awarded as a *Travelling Fellowship* Milton Hersey Fellowship in Chemistry (\$500) open to graduates of all univs. and technical colleges.

**RESIDENCE** with rooms for 100 women and refectory accommodation for 150. Board and lodging, \$8 to \$10 a week.

**UNIVERSITY EXTENSION.** See above—Degree courses. A course of weekly lectures is open to the public, and lectures are given by members of the staff at various centres in Ontario.

**PUBLICATIONS.** *Calendars* (by Faculties); *Queen's Quarterly*; *Queen's Univ. Journal*.

## THE YEAR 1927-28

**BENEFACTIONS** Campaign for endowment has brought in nearly \$1,000,000 to date.

**NEW BUILDINGS.** Large building, formerly used as Orphans' Home, bought for Students' Union, and alterations nearly completed

**EXTRA-MURAL WORK.** Banking Courses as formerly, and also Courses given for Institute of Chartered Accountants. In the Faculty of Arts part of a degree course may be covered by correspondence.

**HONORARY DEGREES.** LL.D.—J. B. Reynolds, Agric. Coll.; Dr J. G. Dwyer; C. F. Martin; Senator Dandurand; Hon W. Phillips, United States Minister to Canada; Justice R. M. Dennistoun, Winnipeg; L. A. Pierce; J. B. Walker, K.C. D.D.—T. E. Holling, J. R. Fraser.

**STUDENTS.** Full-time, 1461. Summer School, extension, and extra-mural, 2061. School of Navigation, 18.

**DEGREES.** D.Paed, 1; M.A., 11; B.A. (Hon.), 76, B.A. (Pass), 86, B.Com., 24; M.Sc., 1; B.Sc. (Hon.), 11, B.Sc., 39; M.D., C.M., 58.



# UNIVERSITY OF ST. FRANCIS XAVIER, ANTIGONISH, NOVA SCOTIA

CHANCELLOR AND *ex officio* CHAIRMAN OF THE BOARD OF GOVERNORS—

Rt. Rev J MORRISON, D.D., Ph.D, Bishop of Antigonish.

PRESIDENT-RECTOR—Very Rev. H P. MACPHERSON, D D , D.C L.

VICE-RECTOR AND DIRECTOR OF DISCIPLINE—Prof. D J. MACDONALD,  
Ph D

BURSAR—Very Rev D C MacKAY, B.A.

LIBRARIAN—Prof. M M COADY, Ph.D., D D.

REGISTRAR—Prof P J NICHOLSON, Ph D

DIRECTOR OF STUDIES—Prof. R K MCINTYRE, B Sc

## PROFESSORS, LECTURERS, ETC.

<i>Biology</i>		Bourdin, H L., Ag-ès-L Paris
Chisholm, J. C , B A.	Prof.	Carnegie Prof.
<i>Chemistry</i>		<i>Gaelic Lang and Lit.</i> [Lectr.
McIntyre, R K , M A., B Sc.		Nicholson, P J (v. Physics)
Cath. Univ. of Amer	Prof	
<i>Classics</i>		<i>Geology and German</i>
MacPherson, H P., D D Laval,		McPherson, H., D D , Ph D. Urb.
D.C.L King's Prof (Latin)		Rome Prof.
Sears, L , B A Ox	Asst Prof.	<i>History, v English</i>
<i>Economics and Sociology</i>		<i>Logic</i>
Macdonald, D. J , M.A., Ph.D.		Boyle, T O'R , D D Lav. Prof.
Cath U A.	Prof	
<i>Education and Philosophy</i>		<i>Mathematics</i>
Coady, M M , Ph D St. T.,		Baillie, E L , B.Sc. N.S.T. Prof.
Rome, D D Urb , Rome		McKenna, L A , B A. Asst Prof.
	Prof	
<i>English Lit. and Modern Hist.</i>		<i>Philosophy, v. Educn.</i>
Young, J. J , M A. N.U.I.	Prof.	<i>Physics</i>
Johnston, A , B A.	Asst Prof.	Nicholson, P. J , M.A., Ph D. J.
Bannon, R V., ditto (on leave).		Hopk. Prof.
<i>French</i>		<i>Religion</i>
Raiche, J. F , M A.	Prof.	Mackay, D. C , B A. Prof.

## GENERAL INFORMATION

The Univ. was authorized in 1866 to grant degrees, and was endowed with full Univ. powers in 1882. A new Charter was granted in 1909. The

University is under the direction of the Catholic Church, but there are no religious tests for entrance or for degrees. The recent Neil McNeil bequest for endowment is valued at \$600,000. A further \$200,000 will become due on the death of beneficiaries now receiving interest.

**LIBRARY**, 40,000 vols. **LABORATORIES**. Biol., Chem., Geol., Phys.

**COURSES**. 4 yrs., B.A., B.Sc.; 2 yrs., Engineering (gives admission to leading technical Colls of Canada and U.S.A.); graduate 1 yr. course for M.A.

**EXPENSES**. Board and dormitory, \$6 per week; private room, \$2 per week, tuition for session, \$85, laboratory, \$5 to \$7½, degree, \$5 to \$10.

A "PEOPLE'S SCHOOL," open Jan. to March (8 weeks), provides courses in various Arts, Pure Science, and Agric. subjects. No educational test for entrance

**PUBLICATIONS**. *Calendar* (July); *Xaverian*, monthly.

### THE YEAR 1926-27 (return for 1927-28 not received)

**STUDENTS**. Full-time total, 177. Part-time, 7 (graduates).

**DEGREES** B.A., 21; B.Sc., 3, M.A., 5

# UNIVERSITY OF SASKATCHEWAN, SASKATOON

VISITOR—Hon W. H. NEWLANDS

CHANCELLOR—Sir F. W. G. HAULTAIN, LL D

CHAIRMAN OF GOVERNORS—Hon P. E. MACKENZIE, B A., LL B.

PRESIDENT—W. C. MURRAY, M A, LL D, F R S C

REGISTRAR—A. R. WEIR, B A.

## PROFESSORS, LECTURERS, ETC.

<i>Accounting</i>		<i>Classics</i>	
Neilson, J., B Acc.	Prof.	Sullivan, W. G., M A Dub	Prof.
<i>Agriculture, v. infra</i>		Ramsay, W., B A Qu	Prof.
<i>Anatomy</i>		Ferguson, R. M., B.A. Dub.	Prof.
MacGibbon, R. T., M B, C M Glas.	[Prof.]	<i>Economics</i>	
Galloway, A., M A, M B, Ch B.		Swanson, W. W., M A. Qu, Ph D	
Aberd	Asst Prof	Chic.	Prof
<i>Bacteriology and Pathology</i>		Carrothers, W. A., Ph D Edin.	
Lindsay, W. S., O B E, B A Dal.,			Prof.
M B Edin.	Prof	M'Queen, R., M A. Alb.	Prof.
Rea, George, M B, Ch B, D P H		<i>Education</i>	
Belf	Prof	Quance, F. M., M A. Alta, Ph.D.	
Rayner, N	Asst	Col	Prof.
<i>Biology</i>		Laycock, S. R., B A Tor, Ph D	
Thompson, W. P., M A Tor,		Lond.	Asst. Prof.
Ph D Harv, F.R.S.C.	Prof	The President, M A Edin, LL D.	
Fraser, W. P., B A Dal, M A		Qu. and Alb	Lectr
Corn., M Sc McG.	Prof.	Sharrard, J. A, M A Tor.	Lectr.
Saunders, L. G., Ph D. Camb		<i>Engineering, v infra</i>	
	Asst. Prof.	<i>English</i>	
Bolton, L. L., Ph D Corn		Wilson, R. A, Ph D Qu.	Prof.
<i>Chemistry</i>		Lothian, J. M, M A Glas	Prof.
Thorvaldson, T, B A Man, Ph D.		Bayer, Jean G, M.A Dal	Prof.
Harv, F R S C.	Prof	Matheson, M, M A. Qu	Prof.
Manning, R. J., B.A. Tor., D Sc.		Bentley, J. A., B.A. Dal., M.A.	
Brist	Prof.	Harv.	Asst. Prof.
Basterfield, S. L., B Sc. Lond,		Brown, Edith, B.A. Lond. „ „	
Ph D. Chic.	Prof.	Weir, A. R., B.A.	Lectr.
Grubb, A. C., Ph.D. Chic.	Prof.	McKenzie, Edith J., B.A Sask.	
Cameron, C. N., M.A., Ph.D. Chic.			Asst. Prof.
	Asst. Prof.	<i>French</i>	
Larmour, R. K., Ph D Minn.,		MacDonald, J. A., M A. Harv.	[Prof.]
B Sc.	Asst. Prof.	Cameron, Margaret, B.A. McG.,	
Grace, N. J., B.A	Instr.	M.A. Rad, Doct. de l'Univ.	
		de Paris	Prof.

Boucher, Errol, B.A., M.S. Mont.

Instr.

*Geology*

De Lury, J. S., B.A. Tor., Ph.D.

Minn., F.R.S.C.

Prof

Edmunds, F. H., B.Sc.

Lectr

*German*

Eaton, J. W., M.A. Dub. Prof.

*Hebrew*

[Lectr.

Munro, M. F., M.A., B.D. Qu

*History*

Morton, A. S., M.A. Edin Prof.

Simpson, G. W., M.A. Tor. Prof.

Neatby, Hilda, B.A. Instr.

*Household Science*

Rutter, Ethel, Ph.B. Chic. Prof.

Oxner, Bertha G., B.A.

Asst. Prof.

*Law*

[Dean & Prof.

Moxon, A., B.C.L. Ox

Cronkite, F. C., LL.B. Harv

Prof.

Corry, J. A., B.C.L. Ox

Estey, J. W., M.A., LL.B. Harv

Lectr

Sibbald, A. S., M.A. Tor. Lectr

Shepherd, F. A., B.A., LL.B.

Lectr

*Mathematics*

[Prof

Ling, G. H., B.A. Tor., Ph.D. Col

Dines, L. L., Ph.D. Chic Prof

Pyke, A. J., M.A. Tor. Prof.

Ferus, H. H., B.A. Instr

*Pharmacy*

Campbell, Alex. Emeritus Prof

Woods, Esli, B.S.P. Dean

Meuser, F. N. Instr.

Marvin, J. H. Instr

*Philosophy*

Sharrard, J. A., M.A. Tor. Prof.

Bateman, J. V., M.A. Dub. Prof

Markle, W. B., S.T.D., Ph.L.

Lectr.

*Physical Training*

Griffiths, E. W. Instr.

Alexander, Muriel M. Instr.

*Physics*

Harrington, E. B., Ph.D. Chic.

Prof.

MacKay, C. A., M.A. Dal., Ph.D.

Princ

Prof.

Alty, Thos., B.Sc. Liv., Ph.D.

Camb.

Prof

Curnie, B. W., M.A. Instr

*Physiology*

Scott, J. M. D., M.A. St. And.,

M.D. Edin., Ph.D. Camb.

Prof.

*Political Science*

Dawson, R. M., D.Sc. Lond

*Agriculture*

*Animal Husbandry*

Shaw, A. M., B.S.A. Tor. Prof

Rutherford, W. J., B.S.A. Tor.

Dean & Lectr

MacEwen, J. W. G., M.Sc. Ames

Asst. Prof

Kirk, W. G., B.S.A. Instr

*Dairying*

[Prof

Potts, A. E., B.Sc. Edin., M.S.A.

Collins, M. A., B.S.A. Instr.

*Engineering, Agric*

Greig, A. R., B.Sc. McG. Prof

Hardy, A. E., M.S.A. Ames Prof

Woods, W. C., B.S.A. Instr

Miller, H., B.S.A. Instr

*Farm Management* [Asst Prof.

Allen, W., B.S.A., Ph.D. Corn

*Field Husbandry*

[Prof.

Champlin, M., M.Sc. Sth. Dak.

Kirk, L. E., B.A., M.S.A. Sask.

Prof.

Harrington, J. B., Ph.D. Minn

Prof.

*Horticulture*

Patterson, C. F., B.A. Tor., Ph.D.

Ill.

Prof.

*Poultry*

Baker, R. K., B.A. Manc. Prof.

McLellan, W. H., B.S.A. Tor.

Instr.

*Soils*

Joel, A. H., B.Sc. Mich. Prof.

Edmunds, F. H., M.Sc. Liv. Prof.	Spencer, R. A., B.Sc. McG. Prof.
Larsen, H., B.Sc Instr.	Phillips, E. K., B.E. Sask. Lectr
<i>Veterinary Science</i>	
Hadwen, S., D.V.S. Mc, F R S C.	<i>Electrical E.</i>
Research Prof.	Lovell, W. E., B.Sc.E.E. Manit
Wright, N., V.S Lectr.	Prof.
Fulton, J. S., D.V.M	<i>Mechanical E.</i>
Pathologist.	Greig, A. R., B.Sc. McG. Prof.
<i>Engineering, v. also Agric.</i>	Fraser, I. M., B.Sc. McG. Prof.
<i>Ceramic E</i>	<i>Extra-Mural Work</i>
Worcester, W. G Prof.	Raynor, J. G., B.S.A. Man.
<i>Civil E.</i>	Director.
MacKenzie, C. J., B.E. Dal,	Gordon, K. W., B.S.A. Man. Asst.
M.C.E. Harv. Dean and Prof.	De Lury, Abigail
Williams, G. M., B.Sc. Neb Prof.	Dir. of Home-makers Clubs.

## AFFILIATED COLLEGES, ETC.

EMMANUEL COLLEGE, establd. 1879 for training native helpers at Prince Albert, transferred to its present site in the Univ. grounds in 1909. Principal, W. T. Hallam, M.A., D.D. Courses for Testamur, Lic.Th., B.D.

St. CHAD'S, Regina (Church of England).

St. ANDREWS COLLEGE, Saskatoon. Principal, E. H. Oliver, M.A., Ph.D.

LUTHERAN SEMINARY, Saskatoon. Principal, Rev. H. W. Harms.

JUNIOR COLLEGES—Regina College; Campion Coll., Regina; Luther Coll., Regina; St. Peter's Coll., Munster; Sacred Heart Academy.

COLLEGE OF PHYSICIANS AND SURGEONS; LAW SOCIETY; DENTAL COUNCIL; PHARMACEUTICAL ASSOCN.; ASSOCN. OF REGISTERED NURSES; VETERINARY ASSOCN.; ASSOCN. OF ARCHITECTS, INST. OF CHARTERED ACCOUNTANTS; OPTOMETRISTS; LAND SURVEYORS.

## GENERAL INFORMATION

Established by Act of the Provincial Legislature in 1907, the Univ. opened classes in Arts and Science in 1909 and took over the educational work of the Provincial Department of Agriculture in 1910. Schools of Agriculture, Engineering, Law, Pharmacy, Accounting, Medicine, and Education were opened in 1910, 1912, 1913, 1914, 1917, 1925, and 1927 respectively. The Summer School was organized in 1917. The site includes 1340 acres devoted to Agric. Education and Research, and a campus of 300 acres with a half-mile river frontage. The land, buildings, and equipment cost about \$3,800,000.

Of the Board of Governors 5 members are elected by the Senate and 3 appointed by Govt.; the President is a member. The Senate (19 members elected by graduates, who also elect the Chancellor, and 13 *ex officio*, including the Minister of Education) regulates educational matters, the administration of which is controlled for the Univ. as a whole by an Academic Council and within each College by the Faculty. The President is a member of each of these bodies, and no appointment or dismissal is made without his recommendation. The maintenance of the Univ. is partially provided for by assignments of revenue and legislative grants. The annual budget exceeds \$600,000.

The University conducts the LICENCE EXAMINATIONS for the following professions —Medicine, Law, Dentistry, Accounting, Architecture, Nursing, Veterinary, Optometry, Pharmacy, Land Surveyors, Drugless Practitioners.

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**PUBLICATIONS.** *Calendar* (April); *Agric. Bulletins*, *Sheaf*

## THE YEAR 1927-28

**RESIGNATIONS** Prof. Cameron, Zoology; Prof. De Lury, Geology; Prof. Winters, Animal Husbandry.

**STUDENTS** Full-time total, 1061, including 29 graduates. Part-time. night classes, 156; Summer School, 400; short courses, 940.

**DEGREES** B.A., 74, M.A., 3, B.Sc., 16, M.Sc., 7, B.S.A., 6; B.E., 6; B.Acc., 3, B.S.P., 3, LL.B., 13; LL.D., 5

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Ferguson, W. S.	Lectr.		Assoc. Prof.
Grant, R. R. (A and Bus)	Lectr.	Linell, E. A., M.D.	Manc., M.B.,
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also Philos  
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Asst Prof.
- Architecture*  
Wright, C. H. C., B A Sc. Prof  
Madill, H. H., B A.Sc. Assoc Prof.  
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and Neur.).  
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Pratt, E. J., Ph.D. (Spl. Lectr.  
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- Fletcher, F T H, M A Birm,  
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(C.), (V.), (T.), (M.) = Univ., Victoria, Trinity, St. Michael's College.  
\* On leave of absence.

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Iliffe, J. H. Asst Prof.

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Willard, Alice C Asst. Prof.  
\*McMillan, Eva M., Ph B, Chic  
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Valentine, Charlotte F, M.A.  
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Shaw, J E, A B, Ph D J H U  
Prof  
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Lectr

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and Com. Law).  
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Spl. Lectr (Engin. L.)

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F.R.S. Research Prof.  
Mackenzie, M. A., M A. Camb.

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Sheppard, N. E., M.A. Asst. Prof.

*Medicine and Surgery*, v. *infra*  
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M.) Lectr.  
Smith, L, Mus B. Manc. (Theory  
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(C.), (V.), (T.), (M) = Univ., Victoria, Trinity, St. Michael's College.

\* On leave of absence.

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Chic. Asst. Prof. (C.).  
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Prof. (Social Eth.) (M.)

Bellisle, H. S., B.A., M.A.  
Cath.U.Am (Logic)

Prof. (Logic) (M.).

Sullivan, B., M.A. (Soc. Eth.)

Lectr. (M)

Garvey, W. F., B.A. West, Ph.D.

Rome (Theodicy) Lectr. (M.).

*Physics*, v also Mechanics

McLennan, J. C, O B E, Ph D.,  
D Sc., LL.D., F R S. Prof.

Burton, E F., B.A. Camb., Ph.D.  
Prof.

Satterly, J., M.A. Camb., D.Sc.  
Lond. Prof.

Gilchrist, L, M.A, Ph.D Chic.

Assoc Prof

McTaggart, H. A., B.A. Camb,  
Ph.D. Assoc. Prof.

Meton, H J. C, M A.

Lectr & Demr

McLay, A. B, B A McM, M A,  
Ph D Lectr & Demr

Leitch, J. B, B A Sc Glas

Lectr & Demr

Barnes, C, M Sc Leeds

Lectr & Demr.

Burton, A C, B Sc Lond

Lectr & Demr

12 Demrs, etc.

*Physics, Engineering, and Photo-  
graphy*

Anderson, G R, M A Prof.

Jackson, K B, B A Sc Lectr.

4 Assts.

*Physiology*

Irving, L. Assoc Prof.

Taylor, N. B., M.B. Assoc. Prof

1 Demr. and 6 Fellows

*Political Science*, v. also Law

Urwick, E J, M.A. Ox.

(Acting Dir Soc Service) Prof.

Fay, C. R, M A Camb., D.Sc.  
Lond. (Econ Hist) Prof.

Jackman, W., M A. (Rural Econ.)  
Prof.

Jackson, G. E, B.A Camb Prof.

Innis, H. A., M.A. McM, Ph.D.  
Chic. Asst. Prof.

Kemp, H. R., M.A. Asst. Prof.

Bladen, V. W., B.A. Ox.

Asst. Prof.

Brady, A., B.A., B.A. Ox.

Asst. Prof.

Gibb, W. K, B.Comm. Lectr.

(C.), (V.), (T.), (M.) = Univ., Victoria, Trinity, St Michael's College.

- Perold, J. G. Lectr  
 Glazebrook, A. J. (Banking and Finance) Spl. Lectr.  
*Psychology*  
 Bott, E. A., B A. Prof  
 MacPhee, E. D., M.A., B Educn Edin. Assoc. Prof.  
 Blatz, W. E., M.A., M B, Ph.D Chic. Assoc Prof  
 Chant, S N F., M A Asst Prof  
 Ketchum, J. D, M A. Lectr.  
 Phelan, G., M A. St. Francis Xavier, Ph D. Louvain (Psychol) Prof. (M)  
 8 Class Assts, etc.  
*Public Health Nursing* [Director.  
 Russell, Edith K., B.A. King's Emory, Florence  
 Asst Director and Lectr  
 6 Spl. Lectrs.  
*Public Speaking* [Spl. Lectr  
 Greaves, W. H., M A. Bost.  
 1 Instr.  
*Religious Knowledge*, v *infra*, Federated Univs. and Colls  
*Social Service*, v also Political Science  
 \*Dale, J. A., M A. Ox  
 Director and Prof. (Soc. Science)  
 McGregor, Agnes  
 Director of Field Work  
 Macmillan, J. W., B A, D D. Prof. (Sociology) (V).  
 12 Lectrs. (part time).  
*Spanish*, v Italian  
*Surveying* [Prof  
 Stewart, L. B (S. and Geodesy)  
 Treadgold, W M, B A. Assoc Prof.  
 Crerar, S R, B A Sc Assoc Prof.  
 Banting, E. W, B A Sc Assoc Prof  
 Melson, J. W., B.A.Sc Asst. Prof.  
*Zoology*, v. Biology  
*Zymology*, v. Bio-Chemistry
- Medicine* (for subjects of the first 2 yrs —Anat, etc., v. *supra*)  
*Bacteriology*, v. Pathology  
*Dentistry*, v. *infra*  
 Mason, A. D A., D D S Spl Lectr.  
*Gynaecology*, v. Obstetrics  
*History of Medicine*  
 Fotheringham, J. T., C.M.G., B.A., M B, M.D., C.M, LL.D. Qu. Prof.  
*Hygiene*, v. also Food  
 Fitzgerald, J G, M D Prof  
 Defries, R D., M D, D P H. Assoc. Prof  
 Fraser, D T, B A., M B., D.P.H. Assoc. Prof.  
 Moloney, P. J., Ph.D. Asst Prof.  
 Best, C H, M A. M B (Physiol H) Asst. Prof.  
 Porter, G. D, M B Lectr.  
 McKinnon, N E, M B. Lectr (H and Epidem)  
 Ross, Miss M A, B A Dal Lectr (Vital Stat)  
 McCullough, J. W S (Pub Health Admin) Lectr.  
 5 Demrs, 4 Class Assts  
*Life Insurance* [Spl. Lectr.  
 Hutchison, H S, M B  
*Medical Ethics*  
 Cameron, I H, M B, LL.D. Edin., F.R C S. Eng. Spl Lectr.  
*Medical Jurisprudence*  
 Crawford, M. M., M.B. Assoc.  
*Medical Research*  
 Banting, F. G., M D, LL D. Qu., D.Sc. Prof.  
 Cameron, G C, M D Assoc Prof.  
*Medicine and Clinical Medicine*  
 Graham, Duncan A L, M B Prof  
 Goldie, W., M B Assoc. Prof. (Chn. Med.).  
 Howland, G. W., B A., M.B. Asst Prof.  
 Oille, J. A., M D. Asst. Prof.

(V), (M.) = Victoria College, St. Michael's College.

\* On leave of absence

Clarkson, F. A., M.B.  
Asst. Prof. (Cln. Med.)  
(also Assoc. Prof in  
Fac of Dent ).

Young, G. S., B.A., M.B.  
Asst. Prof.

Loudon, J. D. B.A., M.B.  
Asst Prof

Trow, E. J., M.B. Asst Prof.

Campbell, W. R., M.A., M.B.  
Assoc

Hutchison, H. S., M.B. Assoc

Elliott, J. H., M.B. Assoc.

Parsons, H. C., M.A., M.D., C.M.  
Assoc.

26 Demrs., 1 Fellow.

#### *Obstetrics and Gynaecology*

Hendry, W. B., B.A., M.B. Prof.  
McIlwraith, K. C., M.B.

Assoc. Prof. (Obstet ).  
Marlow, F. W., M.D., C.M.,  
F.R.C.S. Eng.

Assoc. Prof. (Gynæc )  
Frawley, N. D., M.B. Asst. Prof.  
Wesley, R. W., M.B. Asst Prof  
Scott, W. A., B.A., M.B.

Asst Prof  
Kinnear, J. A., M.D., C.M. Assoc.  
Scott, W. A., B.A., M.B. Assoc.  
9 Demrs., 3 Fellows.

#### *Ophthalmology* [Prof

MacCallum, J. M., B.A., M.D.  
Lowry, W. H., M.D., C.M.

Asst. Prof.  
MacLennan, D. N., M.D., C.M.  
Asst Prof.

3 Demrs., 1 Asst.

#### *Oto-Laryngology*

Goldsmith, P. G., C.B.E., M.D.,  
C.M. Prof  
Royce, G., B.A., M.B. Assoc. Prof.  
Biggs, G. M., M.B. Assoc.  
Boyd, E., B.A., M.B. Assoc.  
7 Demrs.

#### *Pathology and Bacteriology*

Klotz, O., M.B., M.D., C.M. McG.  
Prof.

Holman, W. L., B.A., M.D., C.M.  
McG. Prof (Bact )

Robinson, W. L., B.A. McM.,  
M.B. Assoc Prof (Path )

Magner, W., M.D., D.P.H.  
Spl. Lectr. (Path )

Bates, J. E., B.A. McM., M.B.  
Lectr. (Path )

Shipley, M. A., B.A., M.B. Lectr  
1 Assoc., 2 Demrs., 2 Assts., 3  
Fellows

#### *Pathological Chemistry*

Harding, V. J., D.Sc. Manc Prof.  
Hunter, G., M.A., B.Sc. (Agric )

Glas Asst. Prof.  
1 Demr., 2 Assts., 3 Fellows

#### *Pediatrics*

Brown, A., M.B. Assoc Prof.  
Canfield, A. W., M.D. Assoc.  
8 Demrs.

#### *Pharmacy and Pharmacology*

Henderson, V. E., M.A., M.B.  
Prof.  
Lucas, G. H. W., Ph.D.

Asst Prof (Pharmacol )  
2 Fellows, 3 Assts

#### *Psychiatry*

Farrar, C. B., A.B. Harv., M.D.  
J Hop. Prof.

4 Demrs  
*Radiology*

Richards, G. E., M.B. Assoc.  
2 Demrs.

#### *Surgery and Clinical Surgery,*

v also Med Jurisp  
Starr, C. L., M.B., M.D. Bellevue,  
N.Y., LL.D. McM.

Prof. (Surg.).  
Primrose, A., C.B., M.B., C.M.

Edin., F.R.C.S. Eng.  
Prof. (Clinical S ).

Bruce, H. A., M.D., F.R.C.S. Eng,  
Prof. (Clinical S ).

Starr, F. N. G., C.B.E., M.B.,  
M.D., C.M. Prof. (Clinical S ).

Gallie, W. E., M.D., F.R.C.S. Eng.  
Asst. Prof.

Jones, W. W., B.A., M.B.,  
F.R.C.S. Eng. Asst. Prof.

Beatty, H. A , M B		<i>Dental Anatomy</i>	
Asst. Prof. (Clinical S ).	Crouch, S S., D D S		Prof.
Wilson, G. E., M.B., F R C S	1 Instr.		
Eng.		<i>Dental Histology, Pathology, and Bacteriology</i>	
Cameron, M. H. V , M B.	Assoc.	Graham, J. S., M B.	Prof.
Clutterbuck, H. E , M D , C M ,		2 Assocs.	
F.R.C.S. Edin.	Assoc		
Robertson, D. E , M D.	Assoc	<i>Dental Praxis</i>	
Scott, W. A , B A., M B , F R C S		Conboy, F J , D D S.	Prof.
Eng	Assoc		
Shenstone, N S , B A., M D.		<i>Dental Surgery and Anæsthesia</i>	
	Assoc	Paul, E. W., D.D S	Prof
Shuttleworth, C. B., M.D , C M ,		3 Assocs	
F.R.C.S. Eng	Assoc	<i>Operative Dentistry</i>	[Prof.
Ryerson, E S , M D., C M.		Webster, A E , D D S , M.D.	
Assoc (also Asst. Prof.		Coram, J W . D D S	Assoc Prof.
in Fac of Dent ).		1 Assoc	
Graham, R. R , M B.	Assoc.	<i>Oral Surgery</i>	[Assoc Prof.
25 Demrs., 2 Fellows.		Risdon, F E , M B , D D S	
		<i>Orthodontia</i>	
<i>Therapeutics</i>		Hume, G. G., D.D.S	Prof.
Rudolf, R. D , C.B E , M D , C M.		2 Assocs.	
Edin , F R C P. Lond.	Prof		
Johnston, S , M A , M D , C M		<i>Periodontology</i>	
Lectr (Anæsth )		Box, H. K , D D.S., Ph.D.	
8 Demrs		Research Prof.	
		Trelford, W. G , D.D S.	
Dentistry		Assoc Prof	
<i>Applied Chemistry, Physics, and Metallurgy</i>		Snell, C. A , D.D.S.	Assoc Prof.
Cowling, T., M.A McM , D D S		<i>Preventive Dentistry</i>	
	Prof	Seccombe, W., D D S.	Prof.
Rous, C. C , B A Sc.	Lectr	1 Assoc	
<i>Clinical Dentistry</i>		<i>Prosthetic Dentistry and Dental Technology</i>	
Mason, A. D A., D.D.S	Prof	Cummer, W E , D D S	Prof.
7 Assocs , 13 Demrs.		Willmott, W E , D D.S	
<i>Crown and Bridge Prosthesis</i>		Assoc Prof.	
Ante, I H , D D S	Prof	1 Instr.	

## COLLEGES OF THE UNIVERSITY

UNIVERSITY COLLEGE Principal—M W. Wallace, B A , Ph.D. , Registrar—W. J. McAndrew, M.A.

VICTORIA COLLEGE. The Faculty of Arts of Victoria Univ., v. *infra*.

TRINITY COLLEGE. The Faculty of Arts of the Univ. of Trinity College, v. *infra*.

ST. MICHAEL'S COLLEGE. Superior—Rev E J. McCorkell, M A. ; Registrar—Rev. B. Sullivan, M A. Other Teachers the Profs., etc., marked (M.) in above list.



## FEDERATED COLLEGES

ST MICHAEL'S, v. *supra*.

KNOX COLLEGE, WYCLIFFE COLLEGE, and EMMANUEL COLLEGE. Teachers giving instruction in Univ. courses (*Religious Knowledge*): (1) Knox—J. D. Cunningham, M.A., D.D. (2) Wycliffe—W. R. R. Armitage, M.A.; B. W. Horan, M.A., B.D.; T. W. Isherwood, M.A.; T. R. O'Meara, D.D., LL.D.; C. V. Pilcher, M.A., D.D.; W. E. Taylor, M.A., Ph.D. (3) Emmanuel—R. Davidson, M.A., Ph.D.; J. Dow, M.A., D.D.; A. Gandier, M.A., D.D., LL.D.; A. J. Johnston, B.A., D.D.; J. F. McLaughlin, B.A., D.D., J. H. Michael, M.A.; W. A. Potter, M.A., B.D.; D. M. Ramsay, M.A., D.D.

## AFFILIATED COLLEGES

ONTARIO AGRICULTURAL COLLEGE, GUELPH President—G. I. Christie, B.S.A. 17 Profs., 10 Assoc. Profs., and 16 Lectrs. 20 Demrs. and Instrs.

ONTARIO COLLEGE OF PHARMACY, TORONTO. Registrar-Treasurer—J. F. Roberts. Faculty—4 Teachers.

ONTARIO VETERINARY COLLEGE, GUELPH Principal—C. D. McGilvray, D.V.S.

ALBERT COLLEGE, Belleville; ALMA COLLEGE, St. Thomas, ONTARIO LADIES' COLLEGE, Whitby; ST. HILDA'S COLLEGE, TORONTO (the Women's RESIDENCE for Trin. Coll.).

ONTARIO COLLEGE OF ART.—Principal—G. A. Reid.

ROYAL COLLEGE OF DENTAL SURGEONS OF ONTARIO.

## GENERAL INFORMATION

An appropriation of 500,000 acres of land for the support of 4 grammar schools and a Univ. in Upper Canada was made in 1798, and a Royal Charter was granted in 1827 for a "King's College" with the privileges of a Univ., but it was not until 1843 that the College was inaugurated. In 1849 its title was changed to The University of Toronto. It was reorganized in 1853 as an examining and degree-conferring body on the model of the Univ. of London. In 1887 it again became a teaching body, the Faculties of Medicine and Law which had been abolished prior to the reorganization of 1853 were revived, the Arts work was divided between the Univ. and Univ. College, and provision was made for the admission of other institutions as Federated Colleges. Victoria, Trinity, and St. Michael's Colleges became integral parts of the Univ. in 1892, 1904, and 1907 respectively.

LIBRARY, 220,349 vols. and 76,876 pamphlets. Annual Grant for books, \$34,500; 2000 periodicals and serials received. The (Science) Library of the Roy. Can. Inst. is housed in the same building. MUSEUMS: The Royal Ontario Museums—Archæology, Geology, Mineralogy, Palæontology, and Zoology, departmental museums; Trinity has a Nat. Hist. and Archæol. Museum of its own; the Agric. and Vet. Colleges, Knox, and the Faculty of Dentistry have each one.

LABORATORIES: in all depts. of Applied Science and Engineering as well as Anat., Bio-chem., Biol., Bot., Chem., Geol., Household Sc., Hygiene, Mineralogy, Path., Physics, Psychol., Physiol.; described in *Bulletin* for Graduate Students. BOTANICAL GARDEN. OBSERVATORY. HOSPITALS available for Clinics: General, 750 beds; Children's, 262; St. Michael's, 383; Western, 120.

FACULTIES. Arts, Medicine, Applied Science and Engineering (Depts.—

Archit., Civil E., Mining E., Mech. E., Chem. E., Elec. E., Metall. E.), Household Sc., Education, Forestry, Music, School of Graduate Studies, Dentistry. DEPARTMENTS. Social Service, Public Health Nursing, University Extension.

**UNIVERSITY MATRICULATION BOARD.** As a result of a conference of representatives of the Univs. of Toronto, Queen's, McMaster, and Univ. of Western Ont. held in Dec. 1908, the Senates of these Univs. created a Board to conduct and control their annual Matricn. examns. The Dept. of Educn. of Ontario agreed to provide the same machinery for holding these examns. as it employs for the Departmental examns, and the Registrar of the Dept. is Secy. of the Board. In connexion with the Matricn. examns. a report signed by all members of the staff of the school concerned as to the standing of their candidates is taken into account in determining the results.

The subjects of Pass Matricn. are (1) Latin, (2) English, (3) History, (4) Maths., (5) Greek, (6) French, (7) German, (8) Spanish or Italian, (9) Physics and Chemistry, or (10) Agric. For Matricn. in Arts it is necessary to pass in (1) to (4) and any two of (5) to (10) for admission to the Pass Course, and with honour standing in at least 5 specified subjects for admission to an Honour Course. In certain cases foreign students may substitute their native language for Greek or French or German. Music is accepted as an option for Ancient History (the subject of one of the two History papers, the other being Canadian History)

For Matricn. in the Univ. of Toronto in Med. the requirements are (1) to (4), (9), and any one of (5) to (8), with honour standing in (2), (4), and one of (1) and (5) to (7); in Applied Sc. or Forestry—(2), (3), (4), and any three of (1) and (5) to (10), with honour standing in (2), (4), and one of (1), (5) to (8); in Household Science—(2), (3), (4), (9), and two of (5) to (8) for admission to the Pass Course, with honour standing in at least 4 specified subjects for admission to the Honour Course; in Music—the same as for admission to the Pass Course in Arts, in Dentistry—(1), (2), (3), (4), (9), and one of (5) to (8), with honour standing in (2), (4), and one of (1), (5) to (8)

Minimum age for admission to the Faculty of Arts, 16; Law, 21; Med., 17; Appl. Sc., 17; House Sc., 16; Educn., 19; Forestry, 17; Dentistry, 16

**DEGREE COURSES.** 4 yrs.—B.A., B.Com., B.A.Sc., B.Sc. (Med.), B.Sc. (Dent.), B.H.Sc., B.Sc.F., B.S.A. and B.V.Sc. (at Guelph), Phm. B.; 3 yrs.—Mus. B.; 5 yrs.—B.Arch., D.D.S.; 6 yrs.—M.D. Combined courses. B.A. and M.D.—7 yrs.

*Students from the British Isles* will be admitted to Medicine and Applied Sc. on submitting certificates of registration with the General Medical Council of Great Britain and the Institution of Civil Engineers.

Honour courses for the B.A. and B.H.Sc. are provided in Household Science.

The first 2 yrs. of the Law course may be taken in Arts in the Univ., the 3 remaining yrs. being taken at Osgoode Hall.

The B.Sc. (Med.) may be obtained by Med. students who, after the 4th or subsequent year of Med. study, having maintained therein a prescribed standard of proficiency, spend a year in an approved course of study, and show facility in reading one modern language besides English.

A student who has already graduated in the Faculty of Arts, Med., or Science of a Canadian or other recognized Univ. may complete the course in Dentistry in 4 yrs. instead of 5, provided he has covered certain prescribed subjects during his undergraduate course; and persons holding the L.D.S. of one of the Med. authorities of Great Britain or the B.D.S. degree of approved Australian Univs. may be admitted in the Faculty of Dentistry without further examn., and to the final D.D.S. examns. on completing one full session at the Faculty of Dentistry.

**Higher Degrees.** M.A., obtainable by approved course of graduate study extending over 2 yrs. or, in the case of a B.A. in an Honours course, 1 yr.; Ph D., open to a graduate in Arts (or, on special conditions, another Faculty) of this or another recognized Univ. by pursuing in the Univ. of Toronto an advanced course of study for 3 yrs., exemption from 1 of which may be given in consideration of the candidate having already pursued such a course for 1 yr. A thesis embodying the result of an original investigation is required.

Ch.M. obtainable after 3 yr. course open only to graduates in Med. of a recognized Univ. The D.P.H. course (for Med. graduates) covers 11 months—1 winter and 1 summer session.

The M.A Sc may be obtained by a B.A Sc. of this Univ. who pursues a course of advanced study in the Faculty for 1 yr, presents a satisfactory thesis, and passes such exams as may be prescribed

The professional degrees, C E, M E (Mining or Mech), E E, Chem.E. are open to candidates who, after obtaining the B A.Sc or diploma of the Faculty, spend 3 yrs in the actual practice of one of these branches of engineering, present a satisfactory thesis, and pass exams. The F.E. may similarly be obtained by a B.Sc F.

The B Pæd. and D Pæd are open to graduates in Arts or Science of any British Univ. who hold a 1st class or High School Asst.'s certif. of Ontario or its equivalent, and pass, after 2 yrs.' (D Pæd—3 yrs) successful experience in teaching, prescribed exams. For the D.Pæd. a thesis is also required, and the candidate must have attended a summer course (or its equivalent) in each subject of examn

The M.Sc. (Dent) is open to graduates of the Faculty of Dentistry of Toronto or those with equivalent standing. It involves at least two years' work.

The Mus D. is open to a Mus B of this or another Univ of 3 yrs' standing.

The Univ. publishes annually an announcement of *Graduate Courses*. All communications on the subject must be addressed to the *School of Graduate Studies*.

**TRAINING OF TEACHERS.** Courses are provided for Teachers' certificates of several grades, including the Household Science and the Physical Culture Teachers'. The Educn Dept of Ontario grants certifs on the results of Univ. exams, entitling the holders to teach in the High Schools. All teachers for High Schools and Collegiate Institutes must spend at least 1 yr. in the College of Education.

**FEES.** Students proceeding to the B A. and enrolled in one of the Colleges of the Univ. attend lectures of Univ. Profs and Lectrs. in the Faculty of Arts without payment of fees except for laboratory supplies. The College Fees, which entitle students to attend lectures in their respective Colleges, amount to \$75 p a. Medical students pay for tuition, laboratory supply, hospital and annual examn., \$200 (\$150 for first year only) p a. Certificate courses in the College of Education cost \$25 p.a.; Forestry, \$125 p.a.; Applied Science and Engineering, \$200 p.a.; Household Science, \$100 p.a.; D.P.H., \$200 p.a.; Dentistry, \$200 p.a.

**SCHOLARSHIPS**, etc, open to graduates include \$120 for 2 yrs. for Divinity course in Trinity Coll; Fellowship in Philos, \$300, \$1000 Prize for Scientific research or invention, open to all Canadians; \$1500 Scholarship in Medicine; \$500 Fellowship in Anatomy, \$750 Fellowships (one or more, each tenable for 3 yrs) for research in Medicine: and others. War Memorial Scholarships in all faculties.

Two *Mickle* Fellowships (each endowment \$25,000) awarded (1) to a member of medical profession as reward for advancement of practical knowledge in med art or science, (2) to an undergraduate of fifth year in Medicine who

obtains honours at that examn. with highest marks. Nine Fellowships, each \$500 with free tuition for M.A. or Ph.D. ; preference to graduates of Canadian Univs. outside Ontario. Eight of \$500 (tutorial Fellowships) open to graduates of any Univ

**RESIDENCE.** University Houses accommodate 150 men, rent, \$4 per week ; Queen's Hall, residence and board for 98 women at \$9.50 per week ; Univ Coll. Houses, residence and board for women (65), about \$9 50 per week ; Victoria Coll. Halls for 132 men, about \$9 per week, and 144 women, \$200 to \$300 p.a. ; Trinity Coll. provides for 80 men and 70 women ; St. Michael's (R.C.) has also residences for men and women.

**PUBLICATIONS.** *President's Annual Report ; Board of Governors' Report ; Calendars*, April-May, *Graduate Studies Bulletin*, *Bulletins of the Dept. of University Extension ; Medical Bulletin*, *Univ Monthly*, *Can. Historical Review ; Univ. Studies ; Students' Mags*—*'Varsity, Torontonensis*.

## THE YEAR 1927-28

**BENEFACTIONS.** Rockefeller Foundation Endowment (School of Hygiene), \$250,000 ; Eaton Endowment, annual payment, \$25,000, Alexander Lect'ship Commee, for Lect'ship, English Lit, \$14,368 ; Mrs Jessie M Stewart for Research in Pernicious Anæmia, \$10,000, Laura Spelman Rockefeller Memorial for Child Research, \$10,000 ; Canadian National Clay Products for Ceramics Lect'ship, \$3000, George H Armstrong, Scholarship in History, \$2250, Sir Joseph Flavelle and E. R Peacock, for Flavelle-Peacock Lect'ship, each \$1250 ; Banting Research Foundation Subscriptions, \$11,102 72, Canadian Pacific Ry. \$1500 for Grad Fellps.

**DEATHS.** J. T. Crawford, J Squair (Prof Emer.)

**RETIREMENTS AND RESIGNATIONS** M Hutton, J. G. Hume, G. M. Wrong, S. W. Perry. L. C. Coleman, D Duff, J H Faull, J W. Ingram, J. J. R Macleod, D. K. Smith, J. G. Gallic, H. Willan

**NEW BUILDINGS AND EQUIPMNTS.** 43 St George St. purchased and altered to provide accommodation for the Alumni Federation and for the Depts. of Pol. Econ and Mod. Hist

**HONORARY DEGREES.** LL D—Lord Hewart of Bury, His Hon W. D Ross ; The Hon'ble G. H Ferguson, KC, His Ex the Hon'ble Charles Vincent Massey, P.C, MA ; L Farrand, A.M, MD, J H Finley, A.M ; F P. Keppel, A.M ; G. H. Ling, A.M, Ph.D ; Ellen F Pendleton, A.M ; G C Sellery, B.A, Ph.D ; H M Tory, M.A, D.Sc D Litt.—H P. Biggar, B.A ; R J. Bonner, B.A, Ph.D, S B Leacock, B.A, Ph.D ; R. W. Livingstone, M.A, Mgr C Roy, L ès L, D Ph ; J C Smith, M.A. D.Sc—F. J. Alway, B.A., Ph.D, Sir John Bland-Sutton, Bart, F.R.C.S ; Louise D. Cummings, M.A., Ph.D., Elizabeth R Laird, B.A., Ph.D., W G. MacCallum, B.A., M.D ; T. McCrac, B.A, M.D ; G L Ramon, D.V D Eng.—D L. H Forbes, M.E. ; T. H. Hogg, B.A.Sc, C.E. ; J. L. Morris, C.E

**STUDENTS.** The total number of students registered in the University in 1927-28 was 5956, including School of Graduate Studies, 410.

**DEGREES.** Ph.D., 18 ; M.A., 90 ; M.D., 98 ; M.A.Sc., 1 ; D.Pæd., 3 ; M.S.A., 3 ; Mus.Doc., 1 ; M.E., 1 ; E.E., 1 ; B.A., 417, B.Comm., 27 ; M.B., 32 ; B.Sc. (Med.), 6 ; B.A.Sc., 82, B.Arch., 7 ; B.H.Sc., 17 ; B.Pæd., 21 ; B.Sc.F., 10 ; Mus.Bac., 2, LL.B., 2 ; D.D.S., 58 ; B.Sc. (Dent), 5 ; B.S.A., 36 ; B.V.Sc., 18, Phm.B., 15.

# UNIVERSITY OF TRINITY COLLEGE, TORONTO

(In federation with the University of Toronto)

CHANCELLOR—.....

VICE-CHANCELLOR AND PROVOST—Rev. F H COSGRAVE, M A , D.C L.

DEAN OF RESIDENCE—Rev G F. KINGSTON, M A , B D , Ph D.

REGISTRAR—J. N. WOODCOCK, M A Ox.

DEAN OF ARTS—W. A. KIRKWOOD, M A , Ph.D.

DEAN OF DIVINITY—Rev F H. COSGRAVE, M A , D C L

LIBRARIAN—S M ADAMS, M A

DEAN OF WOMEN—Miss M CARTWRIGHT, B A , Principal of St Hilda's.

BURSAR—SYDNEY H. JONES

## PROFESSORS AND LECTURERS IN THE FACULTY OF DIVINITY

*Apologetics*—G F. Kingston, M A , B D , Ph D (Lectr ).

*Church History*—H C S Morris, M A (Prof )

*Divinity*—The Provost (Prof ), Wm Rollo, M A (Prof ).

*Elocution*—T C S Macklem, D D , LL D

*Homiletics*—J B Fotheringham, B A (Lectr ).

*Old Testament*—S B Mercer, M A , Ph D , D D (Prof ).

*Pastoral Theology*—W M Loucks, M A

*Liturgics*—H. T. S. Boyle, M A , D D. (Speci. Lectr )

*New Testament*—J. Lowe, M A (Lectr ).

*Church Music*—C. H. Campion-Smith, L.T.G C , A T C.M (Hon Lectr.).

PROFESSORS AND LECTURERS IN THE FACULTY OF ARTS. See consolidated list under the University of Toronto, names marked " T ".

Trinity College, established in connexion with the United Church of England and Ireland in 1851, was in 1852 granted a Royal Charter as a University. It is federated with the Univ of Toronto and, in its Faculty of Arts, forms an integral part of it, but in the Faculty of Divinity remains entirely independent and itself confers degrees. Telegraphic address—Trincoll, Toronto.

LIBRARY, 30,000 vols

COURSES. L.Th.—4 yrs.; Hons. or Pass B.A. of Toronto and Divinity Testamur—5 or 6 yrs. Candidates for the B.D. or D.D., if resident outside the Eccl. Provinces of Canada, must be graduates in Arts of 3 yrs.' or ordained clergymen of 5 yrs.' standing. The D D. is open to B D 's of 5 yrs.' standing

A SCHOLARSHIP of \$120 p.a for 2 yrs. in Divinity is open to students who have taken an Arts course in the Coll.

PUBLICATIONS. *Calendar* (May); *Review*, monthly, \$1.50; *St. Hilda's Chronicle*, terminally, \$1.

THE YEAR 1927-28. Students: total, 296. DEGREES: D.D., 5; B.D., 2; L.Th., 6 (Arts Degrees listed under Univ. of Toronto).

# VICTORIA UNIVERSITY, TORONTO

PRESIDENT—R P BOWLES, M A , D D., LL.D.

REGISTRAR—C. E. AUGER, B A.

LIBRARIAN—F. L. BARBER, M.A., Ph.D.

Telegraphic Address : Viccollege, Toronto.

## PROFESSORS AND LECTURERS

[See also in the consolidated List under Toronto, names marked (V.)]

<i>Homiletics, Past. Theol., Ch. Hist.</i>	<i>Religious Pedagogy</i>	[Prof.]
Johnston, A J, D.D. M Cox Prof.	Langford, F. Th., B A , M R E.	

<i>New Testament, Greek, etc.</i>	<i>Sociology</i>	[Prof.]
Michael, J. H., M.A. Wales	MacMillan, J W., B A , D D Manit	

G. A Cox Prof	<i>Systematic Theology</i>	
<i>Public Speaking</i>	The President, M A , D D. Wes ,	
Greaves, W H , M A Bos Prof.	LL D Mt A & Tor.	
	Ed Jackson Prof	

## GENERAL INFORMATION

The Upper Canada Academy was established by Royal Charter in 1836 in connexion with the Methodist Church in Canada. Its name was changed in 1841, when power was obtained to grant degrees in Arts, Theol., Med., and Law, to "Victoria College," and in 1884 to "Victoria University." In 1890 it was federated with Univ. of Toronto, and its Arts Faculty became a College thereof, but it still confers degrees in Theology.

In 1928, by Act of the Legislature of the Province of Ontario, Victoria University received an amended charter by which it continues in federation with the University of Toronto and in connexion with the United Church of Canada (formed in 1925 by the union of the Congregational, Methodist, and Presbyterian Churches in Canada), and includes within itself, under one Board of Regents and one Senate, two Colleges, Victoria College in Arts and Emmanuel College in Theology, the latter formed by the union of the Victoria University Faculty of Theology with Union Theological College (continuing Knox College in the United Church)

**LIBRARY.** Special features—Canadian verse and Tennysoniania (C. C. James's collections), Methodism in Canada, Education in Ontario.

**COURSES.** 4 yrs. in Languages, Anc. Hist. and Ethics for B.A., both Pass and Hons.; 3 yrs. for B.D., subsequent to graduation in Arts; 4 yrs.' conference course for probationers for the Ministry following a 2 yrs.' course taken on circuit; 3 yrs.' conference course for graduates.

**HOSTELS** for 210 men and 206 women students.

**PUBLICATIONS.** *Theological Calendar* (May); *Bulletin* (July); *Acta Vict.*, a students' monthly.

## THE YEAR 1927-28

**NUMBER OF STUDENTS** Full-time. preparing for B.A., 729; B.D. or Dipl.Th., 74. Part-time, 48.

**DEGREES.** B D., 6; Dipl.Th., 24.

# UNIVERSITY OF WESTERN ONTARIO, LONDON, ONT.

CHANCELLOR—Hon W J. ROCHE, M.D., LL D.

CHAIRMAN OF THE BOARD OF GOVERNORS—A T. LITTLE.

PRESIDENT—W S. FOX, Ph D., Litt D , F R C S

REGISTRAR—Prof. K. P. R. NEVILLE, M.A , Ph.D.

BURSAR—W. WAUGH, M D., LL D.

LIBRARIANS—F. LANDON, M.A

EXECUTIVE SECRETARY—Col W. J. BROWN, V.D , B S A , LL M.

DEAN OF WOMEN—RUBY E. C. MASON, M.A

## PROFESSORS, LECTURERS, ETC.

### *Anatomy*

Macklin, C. C., M B., M A , Ph D.  
Tor. Prof.

8 Instrs. and 7 Tech Assts

### *Bio-Chemistry*

Macallum, A. B , B A., M D ,  
Ph.D. Tor. Prof

James, A. A , M.D. Asst Prof.  
2 Assts

### *Biology, v. Zoology*

### *Botany*

Hart, N. C , M A. Tor. Prof.

Walker, A. R., M A Tor  
Asst Prof

2 Instrs.

### *Chemistry*

Gunton, J. A., M.A. McM., Ph.D.  
Ill. Prof.

Best, N. C., Ph C. Mass. C Ph  
Assoc. Prof.

Russell, J , M A. Harv , Ph D  
McGill Assoc Prof

Burns, J. W., M.Sc. Queen's  
Asst. Prof.

Sivertz, Christian, B.A.Sc. Br.  
Col., M.Sc. and Ph.D. McG.

Instr.

1 Asst.

### *Classics*

Neville, K. P R , M A Harv.,  
Ph D. Corn (C. & Hist ) Prof

Auden, H W , M A Camb Prof  
Pemberton, R. E. K , M.A. Camb.

Asst. Prof.

2 Instrs

### *Economics, v. Polit. Econ*

### *Elocution*

Walker, Jean I. Instr.

### *English*

Tamblyn, W. F , M.A. Tor., Ph D.  
Col. Prof.

Spenceley, J. A., B A. Tor , M A.  
Harv Assoc Prof.

Albright, Evelyn, B A. Tor  
Asst. Prof.

Neville, J T , M A Lectr.

Liddicoatt, Doris, M A. Lectr.

Wrighton, Marion, B.A. Lectr.

Milne, W. S , M.A. Tor. Instr.

### *French and Italian*

Bassett, M. E., B.A. Mich., A.M.  
Princeton Prof.

### *French and Spanish*

Collin, W. E., B. ès L. Toulouse,  
M.A. Asst. Prof.

3 Instrs.

*Geology* [Assoc. Prof.  
Russell, J. W., M A. McM.

*German*

James, N. C., B A Tor, Ph D.  
Halle, LL.D. Prof.  
Allen, R. A., M.A. Tor. Instr.

*Hebrew*

[Prof.  
Waller, C. C., M A. Camb., D.D.

*History*

Dorland, A G, B A. Qu, M A  
Yale, Ph D. Tor. Prof.  
Landon, F., M.A. Assoc Prof.  
Maine, S. F., B A., B D Vict,  
M.A. Chic. Asst. Prof.

*Mathematics*

Kingston, H. R., M A Qu, Ph D  
Chic. Prof.  
Patterson, W J, M A Qu Prof.  
Woods, A., M.A. Qu. Asst. Prof.

*Medicine, v. infra*

*Physics*

[Prof.  
Dearle, R C, B A, Ph D Tor  
Allen, R. L, M A Mt All.  
Asst Prof.  
2 Instrs.

*Physiology*

Miller, F. R, M A, M B Tor,  
M D Mun Prof.  
Laughton, N. B., B A. Tor, Ph D.  
Chic. Assoc. Prof.  
Waud, R. A., M D. Instr.  
3 Assts.

*Political Economy*

Freeman, R., M.A. McM., Litt B.  
Ox. Assoc. Prof.  
Reilly, E. E, B.S.A. Tor., M.S.  
Wis. Asst. Prof.  
Perrin, F E, B A Tor Lectr.  
Curran, F. H., B.A., LL.B. Lectr.

*Psychology*

[Lectr.  
Sage, G. B, M A. Trin, D D

*Zoology*

Robertson, A. D., B.A. Tor. Prof.

Detwiler, J., M.A. Qu., Ph.D. Corn.  
Assoc. Prof.  
3 Instrs.

*Medicine* (for subjects of first 2  
yrs.—Anat., etc., v. *supra*)

*Eye, Ear, Nose, Throat* [Prof.  
Thompson, S., M.D., F.A.C.S.  
3 Instrs.

*Medicine*

[Prof.  
Hale, G. C., M D, C M. McG  
Childs, J. R N, M.D. Assoc Prof  
Campbell, F J H, B A, M D,  
M R C P. Assoc Prof  
Watson, E. M, M.D, M R C P.  
Edin. Asst. Prof.  
12 Instrs.

*Obstetrics and Gynæcology*

Tew, W. P., M.B. Tor., F.R.C.S.  
Edin Asst Prof  
Clegg, F R, M D Asst. Prof  
1 Instr.

*Pathology and Bacteriology*

Bullard, H H, A B Missouri,  
Ph D Tul, M D. J Hop Prof.  
Fisher, J H, M Sc, M D  
Assoc. Prof.  
6 Instrs and 3 Assts

*Pediatrics*

Tillmann, W. J., M D. Prof.  
Lindsay, J. C, M B. Tor.  
Asst. Prof.  
Ferguson, J. I., M D. Asst. Prof.  
3 Instrs.

*Pharmacology*

Crane, J. W., M.B. Tor. (Dean of  
Med. Faculty) Prof.  
2 Assts

*Psychiatry*

[Assoc Prof.  
Robinson, W. J., M B Tor.  
Stephenson, G. H., M.B. Tor.  
Assoc. Prof.

*Public Health*

Slack, J. A., Ph.C. Mass., C.Ph.,  
M.D., D.P.H. Assoc. Prof.  
Downham, W. S., M.D., D.P.H.  
Lectr.



<i>Radiology</i>		Ramsay, G. A., M.D. Asst. Prof.
McNeill, G., M.D., F.A.C.S. Prof.		Busby, E. D., M.D.
		Asst. Prof. G.U. Surgery.
<i>Surgery</i>	[Prof.	Grant, A. J., M.D., F.A.C.S.
Williams, H., M.D., F.R.C.S.		Asst. Prof.
Wilson, J. C., M.D. Asst. Prof.	4 Instrs.	

## AFFILIATED INSTITUTIONS

**HURON COLLEGE.** Principal, Prof. of Div. and Hebrew, Rev. C. C. Waller, M.A. Camb. and McG., D.D. Other teachers not on staff of the Univ.: Most Rev. Archbishop of Huron, D.D., Lectr. in Bib. Exeg.; F. Anderson, M.A., B.D., D.D. Ox., Prof. of Ch. Hist.; Dean L. N. Tucker, M.A., D.C.L., D.D.

**ASSUMPTION COLLEGE.** Principal, Prof. of Greek, D. L. Dillon, B.A. Tor. Sixteen other Profs. of Arts subjects.

**URSULINE COLLEGE.** Dean and Prof. of Mathematics, Mother M. Immaculate, B.A. Tor. Thirteen other Profs. of Arts subjects.

**WATERLOO COLLEGE,** Waterloo, Ont. Dean, Alex. O. Potter, Ph.D. Columbia, Prof. of French and Economics. Twelve others in Arts Department.

**ALMA COLLEGE,** St Thomas, Ont. Principal, P. S. Dobson, M.A. Oxon. Eight other teachers.

## GENERAL INFORMATION

Incorporated by an Act of the Provincial Legislature in 1878 as a College in connexion with the Church of England, the Univ. has become, under the provisions of amending Acts of 1908 and 1923, absolutely undenominational in its government, which is under provincial and municipal control.

**FACULTIES.** Colleges of Arts, Medical School, Public Health.

**DEGREE COURSES.** 4 yrs. (from Junr. Matricn.), B.A.; 1 or 2 yrs., M.A. and M.Sc.; 6 yrs., M.D. Attendance on part of the classes may be dispensed with by the Senate, but all students must have attended lectures in the Univ. for at least 2 yrs. before they can graduate. D.P.H. and C.P.H.N., C.I.N. and C.H.A. courses (1 yr.) provided for graduates in Med. and graduate nurses respectively.

Courses leading to B.A. in Applied Agricultural Biology authorized 1927-28, Doctor of Public Health.

**PUBLICATIONS.** *Calendar* (May), *Report of Faculty of Public Health* (May); *Medical School Announcement* (May); *Univ. Gazette*, weekly during term.

## THE YEAR 1927-28

**BENEFACTIONS.** Endowment Fund, \$750,000.

**HONORARY DEGREES.** LL.D.—J. B. Maclean. D.Sc.—R. Harcourt.

**STUDENTS** Full-time, 802, including 12 graduates. Part-time, 161.

**EXTENSION.** Summer School, 79. Extra-mural, 59.

**DEGREES.** M.A., 11; M.Sc., 3; M.D., 29; B.A., 115; Certif. of Public Health (Nursing), 5; Certif. of Instructor in Nursing, 1.

# SHANTUNG CHRISTIAN UNIVERSITY, TSINAN, CHINA

Head Office, 299 Queen St. West, Toronto, Canada.

CHAIRMAN OF THE BOARD OF GOVERNORS—F. H. HAWKINS, LL B.  
(22 Furnival Street, London, E C 4).

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(22 Furnival Street, London, E C 4 )

CHAIRMAN OF NORTH AMERICAN SECTION—HENRY J COCHRAN (150  
Fifth Avenue, New York).

CHAIRMAN OF FIELD BOARD OF MANAGERS IN CHINA—The Rt Rev.  
Bishop T ARNOLD SCOTT, D D

ACTING PRESIDENT—LO SHIH-CH'I, Ph B Denison, M A Columbia

VICE-PRESIDENT—LI T'IEN-LU, M A , Ph D Vanderb.

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*Medicine* R T SHIELDS, A B Washington and Lee, M D Virginia ,  
*Arts and Science* LI T'IEN-LU, M A., Ph D. Vanderb , *Women* :  
S. LUELLA MINER, Lift D Oberlin

DIRECTOR OF EXTENSION DEPARTMENT—H R. WILLIAMSON, M A ,  
B D Lond

REGISTRAR—H F SMITH, A B Stanf , A M Col

LIBRARIAN—JOHN CHIH-PEI KWEI, B A Boone

TREASURER—H. P LAIR, A B , D D Emporia, S T M Union

## TEACHING STAFF

### School of Arts and Science

*Biology* A P Jacot, B A Cornell , Ch'in Yao T'ing , K'ang Hsing-Wei, B S

*Chemistry* · W H. Adolph, A B , Ph D Penn , Diang Hwei-Chuen ;  
C K Kao, B S Mass Inst Tech

*Chinese* Chou Kan T'ing , Luan T'iao-Fu

*Education* . Li T'ien-lu, M A , Ph D Vanderb. , H F. Smith, A B.  
Stanf , A M. Col. ; C. P. Ch'eng, M A Chicago, Ph D. Col.

*English* D C Baker, B L , M A Calif , F S Hutchins, B A ,  
Marjorie Rankin, B A

*History and Political Science* : J. J. Heeren, B.D. McCormick, M.A.  
Chic , Ph D Halle-Wittenberg , Chang Li-Chin

*Mathematics and Astronomy* . H E. Wang , H C T'ien

*Physics* : H. W. Harkness, B.A., B Sc. Queen's, Kingston ; Chang  
Cheng, B S , M S Pittsburg , Wang Ping-Hsiao (S.C U)

*Psychology* · Li T'ien-Lu, M A , Ph D , Ts'ui Hung-Chai.

*Religious Instruction* : H. P. Lair, A.B., D.D. Emporia, S.T.M. Union.  
*Sociology* · A G. Parker, B A Park, B D McCormick ; Wu Gin-Ding  
 David (S.C U)  
 7 instructors and assistants.

### School of Theology

L. V. Cady, B A Grinnell, B D Oberlin ; H H Rowley, B A. Bris., B D.  
 Lond. , S C Lo, Ph B Denison, M A. Col. , J. D MacRae, B.A.  
 Manit , B D Knox, D D Westm ; H. H. Ts'ui, B.A., B.D. Peking ;  
 Th D. Drew , W B Djang, M A Tor , C A Stanley, D D ;  
 H P. Lair, B A , B D , S T M , D D ; S Luella Miner, B A , M A ,  
 Litt.D.

### School of Medicine

*Anatomy* : R. T Shields, B.A Washington, M D. Virginia ; L M  
 Ingle, B A , M B , B Chir Camb. , H. W. Wang , M B., S C V  
*Gynæcology and Obs.* : F J Heath (v. Surg ).  
*Medicine* · W McClure, B A , M D , C M. McGill , E. B. Struthers, B A.,  
 M B. Toronto , F. H Mosse, M A , M R C.S., M R C P. Ox ;  
 L F. Heimbürger, M D St. Louis , A V Scott, B S North Car ,  
 M D Penn ; J Morgan, A B , A.M Dickinson, M.D. Penn ,  
 Arabella S Gault, M D Johns Hopk.  
*Pathology* C. H. Chang , P. C Hou, M D Peking  
*Physiology* P. S. Evans, A B Yale, M D Johns Hopk ; P. C. Kiang,  
 B A. St. John's, M D. Penn , S. S Waddell, B.S , M D. Pitts. ;  
 W. P Pailing, M P S , Ph C Lond.  
*Preventive Medicine* : .....  
*Surgery* : E. R Wheeler, M B , B S Lond , F R C.S. Eng. , T. C. Pa,  
 M D. Peking , F J Heath, A B Temple, M D. Penn. ; T. Stearns,  
 B A. Davidson, M.D. Johns Hopk  
*Translation* . P L. McAll, B A. Camb , M B , Ch B. Edin.

Founded in 1904 by the English Baptist and American Presbyterian Missions of Shantung in unison, the Shantung Christian University comprised at first schools of Arts and Science in Weihsien, of Theology at Tsingchowfu, and of Medicine at Tsinan. The two first mentioned were transferred to Tsinan in 1917. A grant of \$200,000 from the Rockefeller China Medical Board enabled the University largely to extend the buildings and staff of the medical school, with which were amalgamated the medical department of the University of Nanking, the Hankow Union Medical College, the North China Union Medical College for Women, Peking, and part of the Peking Union Medical College. In 1924 an Act was passed by the Dominion Parliament of Canada conferring authority to grant such credentials and degrees as are in accordance with the laws of China.

The main purpose of the University is " The advancement of the Kingdom of God through higher education of a distinctly Christian character, with a view to developing a capable and consecrated leadership for the Christian church and community in China." Thirteen missionary societies from Great Britain, the United States, and Canada share in its maintenance. There are two joint boards of administration, the British and the North American, with offices in London and New York respectively, and, deriving authority from them, a " Field Board of Managers in China." The head office of the University is at Toronto.

**DEPARTMENTS.** (1) School of Arts and Science, providing a 4-years' course for intending teachers and pre-medical and pre-theological instruction. (2) School of Theology, providing a 3-years' course following one year in the School of Arts and Science; also a 3-years' course for graduates in Arts. (3) School of Medicine, providing a 5-years' course following a pre-medical course of at least 2 years. (4) University Hospital with attached training school for men and women nurses. (5) Extension Department for cultivating social and religious contact with the people of the city and district by public lectures, evangelistic addresses, models, graphic charts, etc.

**THE MEDIUM OF INSTRUCTION** is mainly Chinese (Mandarin); but English is a required subject at the entrance examination and throughout the whole curriculum, and the use of English text-books and reference books is encouraged.

**ADMISSION** is ordinarily by certification from an approved middle school or by a general matriculation examn. in (1) Chinese Language and Literature, (2) English Language, (3) General Mathematics, and two selected subjects. An intelligence test of common sense and general fitness for University work is applied to all candidates for admission, and a physical examn. must also be passed.

**RESIDENCE, ETC.** All students are required to reside within the University walls. Dormitories provide accommodation for all. Physical exercise is compulsory.

**FEES** for tuition. Arts and Science, \$25, Theology, \$10, Medicine, \$30 per semester. Other student expenses \$100 to \$300 per annum.

**DEGREES.** B A. and B.Sc., 4-years' course, B.Th.—4 years; M B.—7 years; B.D.—1 year after B.Th. or 4 years after B A.

## THE YEAR 1927-28

**STUDENTS.** Full-time total, 287, including 37 graduates

**DEGREES.** Arts B.A, 4; B Sc, 3; diploma, 3 Medicine M B, 24, Diploma, 1.

# NEWFOUNDLAND MEMORIAL COLLEGE AND NORMAL SCHOOL

This College, built by the Government as a War Memorial, was opened in 1924.

To students who have completed the work for the first and second years in the college third-year status is granted by the following Universities.

- (1) All the Univs of the maritime Provs.
- (2) Toronto, in Arts.
- (3) Columbia, Harvard.

McGill recognizes the first year's course of the College as qualifying for admission to second-year courses, and is prepared to consider on its merits the case of any student who has completed his second year at the college who may apply for admission to third-year status.

PRESIDENT. J. L. Paton, M A Camb.

PROFESSORS. Hatcher, A. G., M.A. McG. (Maths.); Hunter, A. C., M.A. Ox., B A. Lond., D. ès L. Paris (Engl. and French); Mennie, J. H., M.A. Brit. Col, B.Sc. Ox., Ph.D. McG. (Chem.); Sleggs, G. F., M.Sc. Liv. (Biol).

LECTURERS. Fraser, A. M, M A Edin (Hist. and Econ), Baker, H. A, D Sc Lond (Geol); Stephenson, R J, B Sc. Lond (Phys), Hunter, Mrs. A. C, M.A. Denver (Spanish and French); Bevan, R. T., L.R A M., A R C O. (Music).

PRINCIPAL OF THE NORMAL SCHOOL. S P. Whiteway, B Sc Columbia, LL.D. Mt Allison

The curriculum covers the first two years of the Univ Courses in Arts, Pure Sci., Engin, and Medicine.

ADMISSION. Junior Matricn. of the Newfd. Council of Higher Educn, conducted by Coll. of Preceptors, London, or equivt

FEES. For full course, \$40 p.a.

EXTRA-MURAL COURSES are provided in most Arts and Science subjects, also in Navigation, Law, and Nursing

A SUMMER SCHOOL, specially designed for teachers, is held in July.

The LIBRARY, 6000 vols, including gift from Rev Dr G. J. Bond of books of late Sir Robert Bond, sometime Premier of Newfd

SCHOLARSHIPS A Leaving Schol'p of \$300 has been specially endowed.

Acadia offers annually one schol'p of \$125, and Mt. Allison one of \$125 and one of \$62 50. These schol'ps are tenable for 2 yrs.

Students of the College are eligible for Rhodes Scholarships.

## THE YEAR 1927-28

STUDENTS. Full-time, 76; Normal School, 96; Extra-mural, 464.

# THE IMPERIAL COLLEGE OF TROPICAL AGRICULTURE, ST. AUGUSTINE, TRINIDAD

CHAIRMAN OF THE GOVERNING BODY—Sir JAMES CURRIE, K'B.E., C.M.G., M.A.

VICE-CHAIRMAN—Lieut.-Col Sir DAVID PRAIN, C.M.G., C.I.E., F.R.S.

PRINCIPAL—GEOFFREY EVANS, C.I.E., M.A.

COMMISSIONER OF AGRICULTURE—Prof H. A. BALLOU, M.Sc.

SECRETARY—Sir ALGERNON ASPINALL, C.M.G., C.B.E., B.A., 14 Trinity Square, London, E.C.3

REGISTRAR—A. G. HOWELL, St. Augustine, Trinidad.

## PROFESSORS AND LECTURERS

<i>Agriculture</i>	[Prof.	<i>Mycology and Bacteriology</i>	
Wood, R. Cecil, M.A., Dip. Agr.		Britton-Jones, H. R., D.Sc. Lond.,	
Baker, A. L., B.Sc. (Agr.)	Lectr.	Ph.D.	Prof.
<i>Botany and Genetics</i>		<i>Sanitation and Tropical Hygiene</i>	
Cheesman, E. E., B.Sc. Lond.,		Seagar, E. A., M.B., Ch.B.	Prof.
A.R.C.S.	Prof.	<i>Sugar Technology</i>	
Hunter, R. E., B.Sc.	Lectr.	Scott, W., B.Sc.	Prof.
<i>Chemistry and Soil Science</i>		<i>Veterinary Science</i>	[Lectr.
Hardy, F., M.A., Dip. Agr.	Camb	Metivier, Capt. H. V. M., O.B.E.,	
	Prof.	B.Sc. Vet. Sc. Lond., M.R.C.V.S.	
Turner, P. E., B.Sc. Lond., A.I.C.		<i>Zoology and Entomology</i>	[Prof.
(Seconded)	Lectr.	Ballou, H. A., M.Sc. Mass. Agr. Coll.	
Croucher, H. H., B.Sc.	Lectr.	Urich, F. W., F.E.S., V.D. Asst. Prof.	
Hurst, R. H., B.Sc., Ph.D., A.I.C.		Watts, C. T., A.M.I. Mech. E.	
	Lectr.	Engr. and Tech. Asst.	
<i>Economics</i>		Corbin, L. A.	
Shepherd, C. Y., B.Sc. (Econ.)		Acct. and Manager, Milner Hostel	
Lond.	Prof.	<i>Banana Research</i>	
Wright, G., B.Com.	Lectr.	Wardlaw, C. W., B.Sc., Ph.D.,	
Librarian and Sub-Editor		F.R.S.E.	Pathologist.
Gianetti, G. G., M.A., Dip. Agr.		McGuire, L. P., M.Sc.	Physiologist.
(Econ.)			

## GENERAL INFORMATION

Incorporated in Sept. 1921 as the outcome of recommendations made by the Tropical Agricultural College Committee (appointed by Viscount Milner in 1919) in their Report (Cd. 562), the College aims at promoting the study of and conducting research in Tropical Agriculture in suitable surroundings and creating a body of British expert agriculturists well versed in the knowledge of the cultivation of land in the tropics, of chemists, and of scientific advisers possessing an intimate knowledge of the means of combating pests and diseases. The College buildings are at St. Augustine, near St. Joseph, Trinidad, on land granted by the Govt. of Trinidad and Tobago. The funds of the College are derived from contributions from Colonies and industries participating in the movement and an Imperial grant. The Imperial Department of Agriculture,

which was founded in 1898 and was amalgamated with the College on April 1, 1922, is administered by the Commissioner of Agriculture. The post of Commissioner of Agriculture was separated from that of Principal of the College as from April 1, 1927, and is now held by the Professor of Entomology, who now combines the two posts. He serves as a Liaison Officer between the College and the several island governments. He supervises the botanic and experiment stations located at St. Vincent, St. Lucia, Dominica, Montserrat, Antigua, St. Kitts-Nevis, and the Virgin Islands, and advises the Government of Jamaica, British Guiana, Trinidad, British Honduras, the Bahamas, and Bermuda in agricultural matters, including the teaching of agriculture in schools. Up to March 1922 the Department issued the *Agricultural News*, a popular fortnightly review circulating widely in the tropics of the old and new worlds, and the *West Indian Bulletin*, a scientific quarterly dealing specially with tropical research and experiment. Numerous pamphlets dealing with special subjects and annual progress reports on sugar-cane experiments and the work of botanic stations were also issued. The College publishes monthly *Tropical Agriculture*. On the transfer of the headquarters of the Department to Trinidad in Sept. 1922 the services of all the officers were retained in the staff of the college, and remain available for duty in connexion with the work of the Department.

The Foundation Stone of New Buildings and Laboratories was laid by Sir Samuel Wilson, Governor of Trinidad and Tobago, on January 14, 1924.

An Instructional sugar factory, towards which British sugar machinery manufacturers are contributing plant worth £20,000, was opened in 1925.

A Low Temperature Research Station for work on bananas and other tropical fruits has just been started. It is financed by the Empire Marketing Board.

The College was re-incorporated by Royal Charter, dated Nov. 23, 1926.

The academic year extends from October 1 to June 30.

**COURSES.** (1) Three-years' Diploma Course for giving a thorough training in the science and practice of T.A. to students intending to become tropical planters, investigators, or experts in different branches of Agr. Science or Technology; (2) one-year course in elementary Agr. Science for students unable to afford (1), with some practical acquaintance with the scientific side of tropical planting and the more up-to-date and efficient methods of production and management; (3) courses for Agr. officers selected for Colonial service in T.A. departments.

**POST-GRADUATE RESEARCH.** Facilities are provided for work in connexion with problems arising in T.A., and more especially those connected with plant pathology, agronomy, physiological botany, and sugar technology.

**TUITION FEES:** £50 p.a., but a limited number of students from contributing Colonies and industries are admitted, on the nomination of the respective local Govts. and industries, without the payment of tuition fees; other students from contributing Colonies, £25 p.a.; Foreign Students, £100 p.a.

The income of the College is derived from contributions by the principal West Indian colonies, Nigeria, the Gold Coast, Sierra Leone, the Empire Marketing Board, the Empire Cotton Corporation, and the British Cotton Growing Association.

Further particulars are obtainable from either the Secy. at 14 Trinity Sq., London, E.C.3, or the Registrar, St. Augustine, Trinidad, B.W.I.

## THE YEAR 1927-28

**STUDENTS.** Full-time, 43; graduates, 23; preparing for diploma, 15; special course, 3. Foreign students: Ecuador, 1. Diplomas obtained, 3.

# THE UNIVERSITIES OF AUSTRALIA

ADELAIDE	MELBOURNE	QUEENSLAND, BRISBANE
SYDNEY	TASMANIA, HOBART	WESTERN AUSTRALIA, PERTH

## GENERAL DESCRIPTION

[Summary, corrected to June 1928, of information issued in June 1919 by an Administrative Committee of the Australian Universities through the Education Service of the Australian Imperial Force of which the Committee was a part]

THE Universities of Australia are dotted all round the Commonwealth and are at great distances from one another and in diverse climates. The mean annual temperatures range between about  $70^{\circ}$  at Brisbane and  $54^{\circ}$  at Hobart. Western Australia's nearest neighbour is Adelaide, which is about 1600 miles away by the shortest route. There is, naturally, not much moving about of students from one to another, but in the three younger some of the principal professional courses are not yet provided, and it frequently happens that a student after working in one of them for a year or two transfers to one of the older and more central Univs where he is granted status in his professional course. As the Univs are not all uniformly developed, they cannot be quite uniform even in their requirements for entrance. But they exercise all possible reciprocity in the interchange of students. They also give students who come from British Univs the same status as at Home. Typical of their attitude in this regard is the By-law of Sydney. Undergraduates of other Univs may, at the discretion of the Professorial Board, be admitted *ad eundem statum* in this Univ without examn, provided always that they shall give sufficient evidence of their alleged status and of good conduct.

**THE COLLEGE SYSTEM** When the Univs. of Sydney and Melbourne were founded provision was made for the establishment of "Colleges of Residence in connexion with different religious denominations." So there came into existence at Sydney, and on the Univ grounds, "St Paul's" (Church of England), "St John's" (R C), "St Andrew's" (Presb), "Wesley" (Meth), and, in 1925, as an extension of St. John's, a Hall for women; the Women's College (1890) is undenominational. Similarly at Melbourne, "Trinity" College (C. of E) was opened in 1872, and was followed by "Ormond" (Presb), "Queen's" (Meth), and "Newman" (R C). Associated with Trinity and Newman respectively are Janet Clarke Hall and St. Mary's Hall, for women students. Queensland has "Emmanuel" (Presb), "St John's" (C. of E.), "King's" (Meth), and an "undenominational" Women's Coll, as well as St Leo's (R C). Adelaide has made a beginning with St. Mark's College (C of E), opened in 1925, and St. Andrew's College (Presbyterian), opened in 1928. There are no other Univ. Colls. in Australia. All these are self-governing and receive no



financial aid from the Univ. They accommodate and teach only a small proportion of the whole number of Australian students, but their importance and influence on Univ. life are not to be gauged by this circumstance.

**CONSTITUTIONS.** The outstanding feature of the Australian Univ. constitutions is the definite and considerable part taken by the State in appointing members of their governing bodies. This is due to the large contributions made to them out of public funds. The newest Univs. have admitted divers other persons, such as representatives of commercial, industrial, scientific, and educational societies, or benefactors, to participate with their graduates in the election of senators or councillors. The constitution of Sydney is the simplest; that of Queensland is outwardly the most comprehensive in its legal conception of the Univ. as "a body corporate consisting of Senate, Council, and graduate and undergraduate members." In Melbourne by a recent revision of the constitution undergraduates elect 2 members of the governing body (Council). In Western Australia undergraduates are enrolled by Act of Parliament in a "Guild" which is given a representative on Convocation, the electing body that may also disallow or propose amendments in any legislation of the Senate. The nomenclature is not consistent. The governing body may be called in one place "Senate," in another "Council"; and the assembly of graduates may be called "Senate"—a term never applied to the professorial body. Sydney and Western Australia have whole-time administrative heads.

**ADMISSION.** Attempts have been made to devise a common matricn., but have been given up. The reason lies in difference of policy as to the part to be taken by entrance examination as a qualifying test, and as to requisite subjects. Generally speaking, matriculation requirements include passing a recognized examn. (school-leaving, matricn., etc.) in English, another approved language (at Sydney, *e g*, Latin, Greek, French, German, Italian, or Japanese), Mathematics, and one or more other subjects. Special facilities are offered for matriculation in some Univs. and in some faculties to persons who have attained the age of 25 yrs., provided (Sydney) they give evidence of distinct educational merit and are recommended by a three-fourths majority of the Faculty of Arts and approved by the Senate.

**THE UNIVERSITY AND THE PROFESSIONS** The Univ. has always at least one professional school. Thus Queensland's School of Engineering has a high repute. Western Australia is making a specialty of Agriculture and Surveying. Tasmania has schools of Law, Engineering, and Commerce. Sydney, Melbourne, and Adelaide have each a wide range of schools.

The Engineering schools give a thorough practical training. Rather high entrance requirements are called for in each of the Univs. The curricula extend over 4 yrs. (W. Australia, 5 yrs.), and are arranged with the definite view of giving a sound knowledge of the properties of materials, and the principles of Maths., Phys., Chem., and Mechanics underlying all engineering work, before specialized professional subjects

are taken. Owing to several large bequests the Russell School of E. in Sydney is the most fully equipped. It maintains separate departments for Civil, for Mechanical, and for Electrical Engineering, for Mining and Metallurgy. The corresponding Schools in Queensland and Melbourne are also well equipped, and those of Adelaide, Tasmania, and W. Australia, although less comprehensive, are efficient. Systematic arrangements are made for students to obtain practical experience in workshops or in the field during vacations. The University training is widely recognized as a necessary qualification for professional positions. As a rule graduates in Civil E. enter the State or Federal Public Works Depts., which carry out practically all the large national engineering works, very little in the way of Public Services being left to private enterprise. The experience thus to be gained is very good, although it must be admitted that the emoluments are relatively low. Many graduates in Mining E. have been absorbed in the mining industries of Australia, but a great number—probably the majority—find their way to the larger mining centres of the world, where the financial rewards are usually greater. There is a good deal of industrial and commercial engineering in Australia, and men wishing to have the freer scope which this offers usually take the courses in Mech and Elec. E. In Archit, especially the domestic kind, there is a promising outlook in practically all parts of the Commonwealth. The Sydney School of Architecture is the only fully developed one with a Professor and a degree. Melbourne has had a diploma course for 20 years, and has for 10 years had an "Atelier" for advanced design work.

The Medical Schools of Sydney, Melbourne, and Adelaide are among the best in the Empire. They comply with the requirements of the General Medical Council, and there is full reciprocity, in respect of registration of degrees as qualifications to practise, between the U K. and Australia. The greater part of the Australian medical profession is now trained in these 3 Univs, and distinguished teachers and research workers are continually being brought in to supplement their staffs. High positions are also held by their graduates outside Australia. It is generally felt by Australian medical men who have had experience in Europe among men trained in the Schools of the U K, that their own training has been even more practical. It is thoroughly British in scope and method, but, in the proportion of hospital facilities to the number of students, it has had some advantages over the training received by the average British student. Whether this impression is or is not correct, it remains true that Australian medical education has reached a high standard, and the equipment of the Faculty is always good and often excellent. Sydney has the advantage of an immense public hospital, on its own grounds, with several others but a short distance away. In Melbourne general hospitals containing 500 beds, and women's and children's hospitals, are close to the Univ. The Genl. Hospl at Adelaide is within half a mile of the Univ, and after the 2nd yr. the greater part of students' time is spent in it. The work done may also be supplemented by study, after graduation, in the "Australian Institute of Tropical Medicine" at Townsville in Queensland; and a Diploma in Trop. Med. is attainable. The Hall Research Institute in

connexion with the Melbourne Hospl. provides facilities for post-graduate work.

In all the Univs. the Faculty of Arts is becoming, with due help from the Faculty of Science, a professional school for teachers. Sydney, Melbourne, and Western Australia have Profs. of Education who are also heads of the State Training Colleges. Adelaide has the State Director of Education on its Ed. Committee and Council, and gives a Diploma to graduates in Arts and Science who take a prescribed course of prof. study and have proper experience of teaching. There is a course in Ed at Queensland, and every facility is given to teachers to graduate in Arts. An excellent professional equipment for teaching can now be obtained in Australia, and the material rewards of teaching are likely to increase.

The less anciently established professions become associated with the Univs. on obtaining a higher status or a legal organization. Thus Vet. Science, the practice of which is as yet legally controlled in only three States, is now regularly entered in one of these (Victoria) through a Univ. course of study. In N.S.W. its legal constitution recently followed the institution of a Faculty of Vet. Science at the Univ. of Sydney. In N.S.W. and Western Australia, whose Univ. also has a Dept. of Vet. Science, the law requires such qualifications for vet. practice that a Univ. training will become the natural approach to the profession in that State.

**PERIODS OF STUDY.** The Univ. requires 3 yrs' study for a B.A. or B.Sc.—4 yrs. if the B.Sc. is taken with Honours. The curriculum for the first degree in Med., formerly 5 yrs., has been lengthened in Melbourne to 5½, in Sydney and Adelaide to 6. The time needed to graduate in law may vary, thus Melbourne course takes 4 yrs., but Sydney and West Aust. allow Arts graduates to do their professional studies in 2 yrs. To graduate in Engin. requires 4 yrs.; in Vet. Science, in Agric., in Economics, and in Dentistry also 4 yrs. (Adelaide, 5 yrs.), subject to certain minor variations; in Architecture, 5 years.

**ACADEMIC TERMS.** In Australia qualifications are reckoned in "Years" and "Courses." But each "Year" is divided into "Terms." The number of Terms in the Year is usually 3. The Year begins in March and ends in Nov. or Dec. The "Long Vacation" comprises Dec., Jan., and Feb., which are the warmest months. Melbourne has 4 terms, the First of 12 weeks; the Second of 10, the Third of 10; and the Fourth, or Examn. Term, of 4. Tasmania also has 4 terms. Queensland has 3 terms and 2 Examn. Periods. Arrangements have been made to secure the coincidence of the 1st-2nd and 2nd-3rd inter-term vacations of the Australian Univs.

**FEES AND COST OF LIVING.** The cost of living varies a good deal in different parts of Australia. A student will probably not notice much difference between Sydney and Melbourne in this respect. But anywhere he will find that £225 a year gives him quite sufficient means, for the climate is benign and good food is plentiful. The style of living everywhere is unostentatious. Decent board and lodging should not cost more than 35s. a week. Meals at the cost of 6d. to 2s. 6d. can

generally be obtained at the University by members of "Unions" and others. Sydney University Union has a Refectory seating 450, and one half of it is open to all members of the University and their guests, and Adelaide University has a Refectory seating 400. A developed Union at an Australian University also provides all the comforts of a non-residential Club for about £1 a year. Exercise in rowing, football, cricket, and other games may be had in the Sports Clubs on correspondingly easy terms.

Residence at a College is optional. College fees for residence and tuition range from 80 to 100 gs. per annum. Thus Wesley College, Sydney (Methodist), charges 28 gs. a term for resident students; Ormond, Melbourne (Presb.), from 95 to 110 gs. a year for residence during terms, according to the course being taken. St. John's, Queensland (Anglican), has fees of £21 per term. The fees at St. Andrew's and at St. Mark's College, Adelaide, range from 110 to 125 gs. per annum. Special arrangements can always be made for residence during vacations, for an example, Ormond then charges 2 gs. a week. Many men live in College on a total income of not more than £150 a year, it is doubtful if any will spend double that amount. There are few rich students and no tradition of expensive living among College men, no charming but costly ancient customs. The assistance from Scholarships and Bursaries is generous.

A list of Univ. Fees payable at Melbourne and Sydney is given below. Queensland has composition fees for complete degree courses, which are from 12 to 18 gs. a year in Arts, 20 gs. in Science, and 21 gs. in Engineering. The corresponding fees at Tasmania are £15 to £20 in Arts, £20 in Science, £22, 10s. in Engineering. W. Australia charges fees for exams, laboratory materials, degrees, and certs., but tuition fees only to overseas students.

*Adelaide.* Matriculation, £1. 1s., *Ad Eundem Statum*, £2. 2s., Admission to Degrees: Arts, Science, Master Engineering, Master of Laws, £5. 5s., LL B., £7. 7s.; B.E., £3. 3s., Mus. Bac., £4. 4s., Diplomas in Educ., Econ., Commerce, Music, £2. 2s. Degree Courses in Arts about £65, Science about £125, Engineering, £135, Law about £90, Medical, 6 years, £240 (excluding Hospital, £56. 14s., and Midwifery Clinics, £5. 5s.); Dental, 5 years, £250; Music, £53. 11s.; Tuition Conservatorium, £14. 14s. minimum.

*Melbourne.* Matricn., 1 g., Degree, 10 gs., Degree Courses in Arts, 3 yrs., about 72 gs., Science, £30 each yr., Agric., 4 yrs., 81 gs.; Laws, 4 yrs., about 102 gs., Med., 5½ yrs., £258 (including Hospl. Fees); Engin., 4 yrs., £120, Vet. Sc., 4 yrs., £100, Music, 3 yrs., at conservatorium, 32 gs. p.a.

*Sydney.* Matricn., £3; Degree in Arts, Econ., Sc., Agric., or Vet. Sc., £3; M.D. and M.S., £20; other Degrees, £10; Degree Courses in Arts, 3 yrs., £75, Econ., 4 yrs., £96, Law, £90 (Arts subjects additional); Med., £234 (excluding Hospl. Attendance, 21 gs., and practical Midwifery, 5 gs.), Dent., 4 yrs., £150 (including Dent. Hospl. £10 p.a.); Science, 3 yrs., £99, Engin., 4 yrs., £154 (Min. and Met., £168); Agric., 4 yrs., £118. 10s.; Vet. Sc., 4 yrs., £114, Archit., 5 yrs., £171.

**FREE PASSAGES TO EUROPE.** The following free first-class passages are granted annually to Australian and New Zealand Univs. for graduates proceeding to Europe to continue their studies : Adelaide, 3 ; Melb., 4 , Queensland, 3 , Syd., 4 ; Tasm., 2 ; W. Aust., 3 ; N.Z., 3 ; available by any of the following Lines : Aberdeen, Blue Funnel, Orient, P. & O., and, for N Z. graduates only, N.Z. Shipping and Shaw, Savill & Albion.

#### CONFERENCE

After a conference held at Sydney in May 1920 the Australian Univs established a Standing Advisory Committee to deal with matters of common interest. The temporary headquarters of the Committee are in Melbourne. The Chancellor of Melbourne Univ. acts for the time being as Convener of the Committee, and the Registrar as Honorary Secretary.

A conference of representatives of the Univs. has been held annually since 1921. Among the topics discussed are : Synchronizing the short vacations of autumn and spring ; uniformity in standards and titles of Australian degrees ; a common first year for degree courses in all faculties ; entrance requirements ; a London buying agent ; public service in mandated territories ; cheap railway fares for delegates attending conferences , customs duties , income-tax on gifts to universities , a Federal Examining University , establishment of a Ph D. degree , a Central School of Forestry , a sabbatical year ; " general science " in public exams , a catalogue of periodicals , paid Vice-Chancellors as Permanent Heads , pension schemes ; surgical degrees ; students' Loan Fund

#### AUSTRALIAN STUDENTS IN THE HOME UNIVERSITIES, v. Appendix XXI.

UNIVERSITY EXTENSION LECTURES were instituted at Sydney Univ. in 1886 and at Melbourne in 1891. In 1913 Workers' Educational Associations were formed in all the States to give effect to a movement for bringing the Univs. into closer relationship with the masses of the people. The movement was fostered by State grants and grew rapidly. Each Univ. co-operates with the W.E.A. in the formation of a joint committee, which appoints tutors and supervises the work with the help of a Univ. officer—the Director of Tutorial classes. A federal W.E.A. for Australia has its central office in the Education Department, Melbourne. The total number of students throughout Australia is about 5000, the greater number taking three-years' courses. In addition to these courses a great many preparatory classes, study circles and summer schools are organized by the Asscn., numerous courses of public lectures are delivered, educational conferences promoted, and an extensive book service is carried on. A correspondence study department has been inaugurated in connexion with the Univs. of Queensland and W.A. In Western Australia provision has been made for extension lectures in Perth and suburbs and in country centres.

STATISTICS of University teachers, students, and finance are published annually by the Commonwealth Bureau of Census and Statistics in the official Year Book.

# UNIVERSITY OF ADELAIDE

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Hon. Sir G. J. R. MURRAY, K.C.M.G., B.A., LL.M.,  
Lieut.-Governor and Chief Justice.

VICE-CHANCELLOR—Prof. Sir WILLIAM MITCHELL, K.C.M.G., M.A., D.Sc.

REGISTRAR—F. W. EARDLEY, B.A.

LIBRARIAN—R. J. M. CLUCAS, B.A.

## PROFESSORS, LECTURERS, ETC.

<i>Accountancy</i>		<i>Bio-Chemistry</i>	
Mills, E. W., A C U A	Lectr.	Robertson, T Brailsford, Ph D	
Shier, W. A., A F I A	Lectr	Calif, D Sc	Prof
<i>Agriculture</i>		Mitchell, M. L., B.Sc	Lectr
Waite Agricultural Research Inst.:		<i>Botany</i>	
Richardson, A E. V., D Sc Melb, M A		.....	Prof
Dir and Waite Prof of Agric		Wood, J G., M Sc.	Asst Lectr.
Prescott, J A, M.Sc Manc		Black, J M	Hon. Lectr
Waite Prof of Agric Chem		<i>Chemistry</i>	
Davidson, J., D Sc Entomologist		Macbeth, A K, M A. St And, D Sc. Belf, F I.C.	
Samuel, G, M Sc (Plant Path)			Angas Prof
Trumble, H C, M Ag Sc		Cook, W T, D Sc	Lectr.
Agronomist		Pennycuik, S W, D Sc Q'd	Lectr.
Davies, J G, B Sc, Ph D		Finlayson, H H.	
Asst Agronomist.			Asst. Lectr. & Demr.
Sim, A. H, B Sc, B Sc (Agric)		<i>Classics and Comp. Philol. and Lit.</i>	
Asst Chem		FitzHerbert, J. A, M A. Camb.	
Phipps, I. F, B Ag Sc, M.Sc., Ph.D. (Cornell)			Hughes Prof
Asst in Plant Genetics		Hollidge, D H, M A	Lectr.
Piper, C S., B.Sc.		<i>Commerce, v. also Acctcy</i>	
Pike, K A.		Clucas, R. J. M., B.A. (Ec. Geog)	
<i>Animal Products Research Foundation</i>			Lectr
Dawbarn, Miss M C., B Sc (Thyroid Research)		Finlayson, R N., LL B. (Indust. and C. Law)	Lectr.
<i>Anatomy</i> [Elder Prof.		Mackay, A. L. G, M A., Dip.Ed., M Ec. Syd. (Public Adm. and Fin.)	Lectr
Woollard, H. H, M D. Melb.		Melville, L. G., B.Ec., A.I.A.	Lectr.
Mead, C. S., B.A., M.B., B.S.		(Statistics)	Lectr.
Lectr.			

Browne, C Harding, A C U A ,  
F C P A . (Com. Practice)

Lectr.

Biaggini, E. G., B A (English)  
Tutor.

*Dental Science*, v. *infra*

*Economics*, v also Com.

..... Lectr

Mackay, A. L G , M A ., Dip Ed ,  
M Ec. Syd. Asst Lectr

*Education* [Lectr

Schulz, A. J , Ph.D Zur., M A .

*Engineering*, v. also Mining

Chapman, R. W., M.A., B C.E.  
Melb., M I E Aust. Prof.

*Engineering, Elec.*

Clark, E. V., B Sc. Lectr.

*English Lang. and Literature*

Strong, Sir Archibald, M.A Liver-  
pool, Litt D. Melb. Jury Prof.  
Kirwood, A. E M , M.A Q'd.

Lectr

Bald, R C. Asst. Lectr

*French*

Crampton, J., B.A. Lond. Lectr.

*Geology and Mineralogy*

Mawson, Sir Douglas, O B E ,  
F.R.S., B.E., B Sc. Syd ,  
D.Sc. Prof

Madigan, C. T., M.A. Ox , B Sc.  
Lectr.

*German* [Lectr

Schulz, A. J , Ph D Zur , M.A.

*History, Modern*

Hancock, W. K., B.A. Melb. Prof.  
Oldham, W , M A Asst. Lectr.

*Law*

Campbell, A. L , B E , B A. Syd.  
Bonython Prof

Finlayson, R N , LL B. (Evidence  
and Procedure) Lectr.

Benham, E. W., LL B. (Property  
L.) Lectr.

Reed, G. S , LL B (Private Inter-  
national Law) Lectr

Brebner, C. C., LL.B. (Roman L )  
Lectr.

Mayo, H., LL.B. (Jurisprudence)  
Lectr.

*Mathematics*

Wilton, J. R., M.A. Camb., D.Sc.  
Elder Prof.

Sanders, H. W , B.A. Camb.  
Lectr.

Statton, J. W., B Sc. Asst. Lectr.

*Medicine*, v. *infra*

*Mining Engineering*

Gartrell, H. W., M.A. Col., B.A.,  
B.Sc. Lectr.

*Music*

[Elder Prof.

Davies, E. H., Mus.Doc.

*Philosophy*

Stewart, J. McKellar, D Phil.  
Edin. Hughes Prof.

Davey, Constance M , M A , Ph D.  
Lond. Evg. Lectr.

*Physics*

[Elder Prof.

Grant, Kerr, M Sc. Melb.

Burdon, R S., B.Sc. Lectr.

Fuller, G R , B Sc Asst. Lectr.

*Physiology and Pharmacology*

Hicks, C. Stanton, M.Sc., M.B.,  
Ch B N.Z., Ph D Camb.,  
F I C Lond

Prof and Sheridan Fellow.

Matters, R F , M B , Ch M Syd.,  
F R C S Edin , D G O.Vienna  
Asst. Lectr in Physiol.

*Zoology*

Johnston, T. Harvey, M.A , D.Sc.  
Syd Prof.

Deland, E W., B.Sc. Demr.

*Medicine* (for subjects of first  
2 yrs.—Anat., etc., v. *supra*)

*Anæsthetics*

Brown, Gilbert, M.B., Ch.B.  
L'pool Instr.

*Diseases of Children, Med.*

Mayo, H. M., M.D., B S.  
Chn. Lectr.

*Diseases of Children, Surg., v.*

also Obstetrics

Gilbert, H., M.B., B.S. Melb,  
F.R.C.S. Clin. Lectr.*Ear, Nose, and Throat* [Lectr.]

Pulleine, R. H., M.B., C.M. Syd

*Forensic Medicine*Rogers, R. S., M.A., M.D., Ch.M.  
Edin. Lectr.*Gynæcology and Obstetrics*Wilson, T. G., M.D. Syd, F.R.C.S.  
Edin. Way Lectr

## Tutors in Obstetrics :

Gilbert, H., M.B., B.S. Melb,  
F.R.C.S.

Beard, J. R. S. G., M.B., B.S.

Dawson, J. B., M.D. Lond

Haste, R. A., B.Sc., M.B., B.S.

Matters, R. F., M.B., Ch.M. Syd,  
F.R.C.S. Edin., D.G.O. Vienna

Swift, H. B., M.B., B.S. Camb.

*Materia Med. and Therap.*

Fry, H. K., B.Sc., M.B., B.S. Lectr

*Medicine and Therap.*De Crespigny, C. T. C., M.D., B.S.  
Melb., M.R.C.P. Lectr

Lendon, G. A., M.D. Tutor

*Medicine, Clinical*

Lectrs. :

Hone, F. S., B.A., M.B., B.S.

Ray, W., B.Sc., M.B., B.S.

Cowan, D. R. W., M.B., B.S.

*Medicine, Psychol.* [Lectr.]

Downey, M. H., M.B., B.S. Melb

*Ophthalmic Surg.*Shorney, H. F., M.D. Melb,  
F.R.C.S. Gosse Lectr.*Pathology* [Marks Prof]

Cleland, J. B., M.D. Syd.

Hone, E. J., M.B., B.S. Melb.

Hetzl, K. S., M.D. Clin. Tutor

*Public Health & Preventive Med.*

Hone, F. S., B.A., M.B., B.S. Lectr

*Surgical and Regional Anatomy*Scott, M. L., M.B., M.S., F.R.C.S.  
Lectr.*Surgery*Newland, Sir H. Simpson, M.B.,  
M.S., F.R.C.S. Lectr.Scott, M. L., M.B., M.S., F.R.C.S.  
Tutor.*Surgery, Clinical and Operative*Newland, Sir H. Simpson, M.B.,  
M.S. Lectr.

## Clinical Lecturers

Smeaton, B., M.B., B.S.

Corbin, J., M.R.C.S., L.R.C.P.

Scott, M. L., M.B., M.S., F.R.C.S.

*Surgical Registrar*Jones, A. T. Britten, M.B., B.S.,  
F.R.C.S.*Medical Registrar*

Rollison, J. W. M.B., B.S.

*Pathological Registrar*Anderson, H. G., M.B., B.S.  
Lond., M.R.C.S., M.R.C.P.*Clinical Teachers*The Staff of the Adelaide and of  
the Children's Hospls*Commonwealth Cancer Research  
Fund*

Hill, F. McC., B.Sc., M.D. Cal.

## Dental Science

Lectrs. : (Prosthetics).

Chapman, A. I., D.D.S.

Reid, F. W., B.Sc. (Metal).

Trott, L. W., D.D.S. (Mat. Med.,  
etc.).Millhouse, E. J., D.D.S. (D. Surg.  
& Path.).

Smeaton, B., M.B., B.S. (Surg.).

Southwood, A. R., M.D., M.S.  
(Med.).Swan, F. M., L.D.S., M.A.C. of  
Melb. (Operative Dentistry).Begg, P. R., B.D.Sc. Melb. (Ortho-  
dontics).Brown, Gilbert, M.B., Ch.B. Liv.  
(Anæsthetics).Campbell, T. D., D.D.Sc. (D.  
Anatomy)



Demrs. :	Brazil-Smith, R. J., B.D.S.
Mead, C. S., B.A., M.B., B.S. (Anatomy).	Instr Pros Dent.
Moore, A. P. R., B.D.S. (Operative Technique).	<b>Tutorial Classes</b>
Brougham, L. A. M. (Prosthetic Technique).	Mackay, A. L. G., M.A., M.Ec. Syd., Dip. Ed., Director, assisted by 15 tutors.

## ASSOCIATED OR AFFILIATED INSTITUTIONS

**RESIDENTIAL:** ST. MARK'S COLLEGE, under management of Church of England, but open to men of all denominations. Opened for students in March 1925. Master: A. Grenfell Price, M.A. Ox., Dip. in Ed.

St Andrew's College, in connexion with the Presbyterian Church in South Australia, but prescribing no religious test, was opened for students in March 1928.

**S. AUSTRALIAN SCHOOL OF MINES AND INDUSTRIES.** President, Hon. Sir L. Bonython. Unites with the Univ. in providing courses and examns. in Mining, Metall., and Engin. The Chancellor is Chairman of the Joint Board.

**ROSEWORTHY AGRICULTURAL COLLEGE.** Affiliated for parts of the B.Sc. course for Agric. students.

**TEACHING HOSPITALS ASSOCIATED WITH MEDICAL SCHOOL** Adelaide General Hospital, 480 beds; Queen's Home (Maternity), 160 beds; Adelaide Children's Hospital, 120 beds.

## GENERAL INFORMATION

The Univ. was established by Act of the Provincial Legislature in 1874 with endowments of £40,000 from Sir W. W. Hughes and Sir F. Elder, and a land grant of 50,000 acres (subsequently repurchased by Govt. for £40,000) as well as a site of 5 acres in the city and a recurrent money grant. Sir T. Elder died in 1897, leaving £65,000 to the Univ. In 1911 the State Parliament sanctioned an additional annual grant and took power to appoint 5 additional members of the Council which, until then, consisted of 20 elected by the Senate. In 1914-19 Mr. Peter Waite presented to the Univ. approximately £55,000 and extensive estates, including a mansion, and in 1920 Sir J. L. Bonython gave £40,000 for a Great Hall and in 1926 £20,000 to endow the Chair of Law. The annual Govt. grant raised in 1919 by £20,000 is now about £42,700. The value of the endowments is £530,554.

**LIBRARY**, over 70,000 volumes. **LABORATORIES**, Biol., Bio-Chem., Bot., Chem., Engineering, Path., Physics, Physiology, Pharmacology. The Univ. assists in the management of a Public Library, **MUSEUM** and **ART GALLERY**, and controls the **ELDER CONSERVATORIUM** (annual fee, 14 gs.).

**SPECIAL LABORATORIES AND EQUIPMENT.** Waite Institute for agricultural research, comprising facilities for research in Agric. Chemistry, Plant Pathology (especially with regard to filtrable virus diseases), and the conducting of field agric. experiments and animal metabolism experiments. Field laboratory at Koonamore for investigation of plant regeneration in arid areas. The Animal Nutrition Institute of the Council for Scientific and Industrial Research is within the Univ. grounds, and offers special facilities for investigations in animal nutrition. Director, Prof. T. Brailsford Robertson.

**COLLECTIONS OF INTEREST TO SPECIALIST SCHOLARS.** Collection of Aus-

tralian endoparasites. Prof. J. B. Cleland's collection of the higher Australian fungi (Basidiomycetes), by far the largest of its kind, is available for study by mycologists and forest pathologists. Collection of representative specimens from all the Australian opal fields.

**SPECIAL RESEARCH DEPARTMENTS.** The Sheridan Medical Research Foundation for the support of medical research. In 1922 Mrs. A. M. Simpson and Miss A. F. Keith Sheridan bequeathed property to the estimated value of £20,000 for the establishment of this foundation. The Animal Products Research Foundation, which conducts investigations in regard to the problems of animal nutrition. The Board of Anthropological Research engaged in Anthropological investigations concerning the aboriginals of South Australia.

**FACULTIES.** Arts, Science, Law, Medicine, Dentistry, Music, Applied Science (including Staff of S. Aus. School of Mines and Industries).

**DEGREES.** Obtainable after 3 yrs.' course, B.A., B.Sc., Mus.Bac.; 4 yrs.', LL.B., B.E.; 5 yrs.', B.D.S.; 6 yrs.', M.B., B.S.

**HIGHER DEGREES.** Open to bachelors of 2 yrs' standing, M.A., M.Sc., M.E., LL.M.; 3 yrs', M.D., M.S., D.D.Sc., Mus.Doc.; 4 yrs.', D.Sc., LL.D., M.Sc., D.Litt.

**DIPLOMAS.** Applied Science (Mining, Metall., or Engin.—Civ., Elec., Mech., or Archit.), 4 yrs.' course, Commerce (A.C.U.A.) evening courses; Education (post-graduate); Music (A.M.U.A.), 3 yrs.'; Economics and Polit. Sc., 3 yrs.'

A "Final Certificate in Law" for admission as a practitioner in the Supreme Court is obtainable by articled clerks on a curriculum less extensive than that for the LL.B.

The Univ. conducts **PUBLIC EXAMNS.** of various grades, irrespective of those for its own degrees, etc., namely, in General Education—Intermediate, Leaving, and Leaving Honours; in Commercial Education—Intermediate and Leaving; and Music.

**SCHOLARSHIPS**, etc., for graduates. Angas Engineering, £200 p.a. for 2 yrs., not open to graduates of other Univs.; several smaller.

**RESIDENCE.** St. Mark's Residential College was incorporated in the Univ. in 1925, and St. Andrew's College in 1927

**ADULT EDUCATION.** Tutorial classes were established in 1917. The subjects taught are Engl. Lit., Hist., Economics, Psychology, Philos., Public Speaking, Music, Singing, and General Science. At the Univ. the courses extend over 3 yrs. Four classes are held in country centres. Public lectures given occasionally.

**CALENDAR** publ. in Feb. Price 2s 6d. *Australian Journal of Experimental Biology and Medical Science*, issued quarterly, £1.1s. per annum.

**GRADUATES' ASSOCN.** Hon. Sec.—M. R. C. Kriewaldt, B.A., LL.B., Box 180, G.P.O.

**MEDICAL SCIENCES CLUB.** Hon. Sec.—Prof. C. S. Hicks, University.

## THE YEAR 1927-28

**NEW BUILDINGS.** The Lady Symon Building, the Students' Refectory, the Animal Nutrition Research Laboratory for Council for Scientific and Industrial Research, and the Melrose Agricultural Chemical Research Laboratory at the Waite Research Institute, are nearing completion.

**NEW POSTS.** Assistant Lectureship in Physiology ; Entomologist at Waite Research Institute.

**OTHER DEVELOPMENTS.** Night lectures supported by Government Grant. A course of night lectures in Arts and Science subjects has been arranged, special lecturers being appointed.

The Council for Scientific and Industrial Research, and through it the Empire Marketing Board, are co-operating with the Waite Agricultural Research Institute in investigations into various problems connected with agriculture, plant diseases, and animal nutrition ; they have contributed £6000 towards a Laboratory building, and the Waite Institute will contribute £3000. In addition to these sums the University has received gifts for the same purpose from Mr. John Melrose of £10,000 and from Mr. J. T. Mortlock of £2000.

The investigations during the next five years are to be supported by the Council for Scientific and Industrial Research and the Empire Marketing Board to the extent of £2783 p.a

**CHANGES IN REGULATIONS** Regulations were made providing for the extension of the course for the B.D S degree from four to five years , granting the degree of D.D.Sc. without further examination on the presentation of a satisfactory thesis ; and eliminating optional subjects in the course for the Diploma in Commerce, and providing advanced courses in continuation of certain compulsory subjects.

**INTERCHANGE OF TEACHERS** Prof. A. E. V. Richardson, Director of Waite Agr. Research Instit., represented Commonwealth Government at the Empire Agricultural Conference held in London (Prof. Sir Douglas Mawson, 6 months' visit in England and Europe)

**RESIGNATIONS** T. G. B. Osborn, Prof. of Botany, appointed Prof. of Botany, University of Sydney ; Wm. Fuller, Lect. in Histology, resigned after 47 years' service.

**EXTENSION LECTURES.** Two courses (6 lectures in all) by two members of the staff. Attendance, 500. Sir John Russell, Director of Rothamsted Experimental Station, England, delivered two lectures dealing with Science and Modern Farming.

**STUDENTS.** Total full-time, 851 , preparing for a first degree in Arts and Pure Science 443, Medicine 116, Law 71, Engineering 102, Dentistry 19, Music 4, Economics 3, Commerce 12 , graduate students—in Arts and Science 69, Medicine 3, Law 3, Engineering 2, Dentistry 3, Music 1. Part-time total, 1478 , graduates, Education and Economics 13, Commerce 2 ; non-graduating students, Arts and Science 342, Law 3, Engineering 18, Dental 1, Economics 10, Commerce 367 , occasional Science 111, Massage 6, Music 55 ; occasional Music 550. Resident in Colleges, 30. Tutorial class students, 1250.

**DEGREES.** M.A., 3 ; BA., 24 ; M.Sc., 3 ; LL B., 9 ; M.D., 1 ; M B., 27 ; B.D S , 4 , B Sc , 15 , M E , 1 , B.E., 12 , Mus.Bac., 1 , Diploma in Applied Sc., 12 , Diploma in Com., 25 ; Diploma in Music, 4 ; Final Certif. in Law, 7.

# UNIVERSITY OF MELBOURNE

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Sir J. H. MACFARLAND, M.A., LL.D.

VICE-CHANCELLOR—Sir JOHN MONASH, G.C.M.G., K.C.B., V.D., B.A.,  
D.Eng., LL.D.

REGISTRAR—J. P. BAINBRIDGE, F.I.C.A., F.C.I.S., J.P.

ASSISTANT REGISTRAR—S. S. ADDISON, M.B.E., B.Sc. Adel., J.P.

LIBRARIAN—LEIGH SCOTT, M.A.

## PROFESSORS, LECTURERS, ETC.

*Accountancy*, v. Com.

*Agriculture*, v. also Zoology

Wadham, S. M., M.A., Agr. Dip.  
Camb.

Prof. and Dir. of School.

Cameron, S. S., D.V.Sc.,  
M.R.C.V.S.

Lectr. (Animal Husbandry and Vet. Hyg.)

Archer, R. T., Lectr. (Dairying).

Wilson, H. C., Lectr. (Part I)

French, C. H.

Lectr. (Ag. Entomology).

Brittlebank, C. C.

Lectr. (Plant Pathology)

Davey, H. W.

Lectr. (Horticulture)

de Castella, F.

Lectr. (Viticulture).

McDonald, G. W.

Lectr. (Wool Classing).

*Agric. Engineering* [Lectr.]

Rennie, E. J. C., M.E. Adel.

*Anatomy*

Berry, R. J. A., M.D., Ch.M.,  
F.R.C.S. Edin., F.R.S.E.

Prof.

Coates, A. E., M.B., M.S. Lectr.

Hurley, L. E., M.D., M.S.

Sr. Lectr.

*Anat., Regional and Applied*

Searby, C. H. C., M.B., M.S. Lectr.

*Architecture*

Gawler, J. S., F.R.V.I.A. Lectr.

Sutherland, G. J., Dip. Arch.

Lectr.

Irwin, L., A.R.I.B.A.

Dir. of Atelier.

Clark, E. J., F.R.V.I.A. Lectr.

Black, W.

Lectr.

Good, Eileen M. F., Dip. Arch.

Sr. Demr.

Alsop, R. H., F.R.I.B.A.,

F.R.V.I.A.

Hon. Lectr.

*Bacteriology*, v. Med.

*Bio-Chemistry*, v. Physiology

*Botany & Plant Physiology*

Ewart, A. J., D.Sc. Lond., Ox.,

and Melb., Ph.D. Leip.,

F.L.S., F.R.S.

Prof.

McLennan, Ethel I., D.Sc.

Sr. Lectr.

Patton, R. T., B.Sc., M.F. Harv.,  
D.I.C. Lond.

Sr. Lectr. (Agr. B. and  
Plant Path.)

Dixon, Dorothy, B.Sc.

Sr. Demr. (Actg.).

*Chemistry*, v. also Bio-Chem.

Hartung, E. J., D.Sc.

Prof.

Green, W. H., D.Sc.

Sr. Lectr.

Davies, W., M.Sc. Manc., Ph.D.

Ox.

Sr. Lectr. (Organic Chem.)

- Anderson, V. G.  
Lectr. (Principles of Applied Chem ).
- Ampt, G. A., B.Sc. Lectr
- Sugden, Ruth, M Sc  
Sr. Demr. (on leave)
- Scott, Margaret E., B.Sc. Sr. Demr.
- Classical Philology*
- Scutt, C. A., M.A. Camb. Prof.
- Kerry, W., M.A. Camb. and Melb.  
Sr. Lectr.
- Cornwall, E. W., B.A. Ox.  
Evening Lectr.
- Commerce* [Prof]
- Copland, D. B., M.A., D.Sc. (N Z)
- Wood, G. L., M.A. Adel.  
Sr Lectr (Economics and Econ Geog ).
- Mauldon, F. R E, B A, M.Ec Syd  
Sr. Lectr. (Economics)
- Nixon, E. V, F C P.A.  
Lectr (Accountancy)
- Fitzgerald, A A, B Com., F I C A  
Asst. Lectr (Acctcy).
- Kelly, E C. W, LL M  
Lectr (Law)
- Dentistry*, v. Affiliated Colls.
- Dutch*
- Lodewyckx, A. (v. German) Instr.
- Economics*, v. Com
- Education*
- Wrigley, L J, M A. Prof.
- Sharman, M. S., M A, M.Sc.  
Sr. Lectr.
- Browne, G. S, M A. Ox., Dip Ed.  
Ox Lond Sr Lectr
- Whyte, Elizabeth, M.A., Dip.Ed.  
Lectr.
- Marshall, Isabella D., M.A. Ox.  
and Dub, Dip.Ed. Camb.  
Lectr.
- Graham, T. O, M.Sc, Dip Ed.  
Lectr.
- Greig, Jane Stocks, M.B., B S,  
D.P.H. Lectr. (Hygiene).
- Hoy, Alice, M.A, Dip.Ed. Lectr.
- Wilson, H. W., B.Sc. Lectr.
- Cunningham, K. S., M.A., Dip.Ed.  
Lectr.
- McRae, C. R., M.A., Dip.Ed.,  
Ph.D (Lond) Asst Lectr.
- Engineering*, v also Agric.
- Payne, H, M I.C.E., M.I M.E.  
Prof.
- Kernot, W. N., M. Mech. E.,  
M.I C.E  
Assoc Prof. (Design, etc )
- Sexton, C. W. N., M.C E.,  
A M.I.C.E  
Sr. Lectr (Civ. E.).
- Brown, E. B., D.Sc, A C G I.  
Assoc Prof (Elec E ).
- Darwin, E R. H., B.Sc. Adel., L.S.,  
A M I C E  
Sr Lectr. (Surveying).
- Bassett, W. E., M.C., M.E.E.  
Sr. Lectr. (Mech. E. and Aerodynamics).
- Rennie, E. J. C, M E.  
Sr. Lectr. (Applied Mechanics).
- Lang, E, B.E (Adel), A M.I.E.  
(Aust) Lectr (Civ. E )
- Lectrs. :
- Clark, G. C. L, M.C, M M.E.,  
B Sc. Tasm (Mining).
- Callaway, A. E, C.E. (Roads).
- Harris, N. C, D S O., M.Sc.  
(Works Practice).
- Summons, W. E, M D., B S,  
D P H. (Ambulance).
- Loutit, G A Demr. (Civ E ).
- Sublet, F G. A., M.E.E.,  
B Mech E.  
Sr. Demr. (Elec. E.).
- 2 Demrs.
- English Lang. and Lit.*
- Cowling, G. H, M.A. Leeds Prof.
- Derham, Enid, M A. Sr. Lectr.
- Price, W. T, M A. Sr. Lectr.
- Maxwell, Beatrice M., B.A.  
Tutor.
- Greig, Cicely M., B.A Tutor.
- Lightfoot, Alice, M.A. Tutor.
- French* [Sr. Lectr.
- Chisholm, A. R., B.A. Syd.
- Karagheusian, V. N. T. Lectr.

Coverlid, Dorothea R., M.A.,  
Dip.Ed.

Tutor (Science Students)

*Geology and Mineralogy* [Prof.  
Skeats, E. W., D.Sc. Lond. and  
Melb., A.R.C.Sc. Lond., F.G.S.  
Summers, H. St. J., D.Sc.

Assoc. Prof

Singleton, F. A., M.Sc. (Agric. G.)  
Sr. Lectr

McInerny, Kathleen M. M., M.Sc.  
Demr. & Asst. Lectr.

Chapman, F., A.L.S. (Palæont.)  
Lectr.

Hauser, H. B., B.Sc. Sr. Demr.  
1 other Demr.

*German* [Assoc. Prof.  
Lodewyckx, A., M.A., Litt D  
Coverlid, Dorothea R., M.A.  
Tutor (Science Students).

*Histology* [Sr. Lectr.  
Hurley, L. E., M.D., M.S.

*History*  
Scott, E. Prof.  
Webb, Jessie S.W., M.A. Sr. Lectr.  
Foenander, O. de R., LL.M.

Evening Lectr  
Sweetman, E., M.A., Dip Ed,  
Litt D Evening Lectr.  
Harper, N. D., B.A., Dip Ed.

Tutor.  
Mulvany, J. F., B.A. Tutor.

*Italian* [Instr.  
Schiassi, O., LL.D. (Bologna)

*Japanese*  
Inagaki, M. Instr.

*Law* [Prof.  
Bailey, K. H., B.A., B.C.L. (Oxon)  
Duffy, C. Gavan (Contracts, etc.)  
Lectr.

Gregory, R. H., LL.B. (Land, etc.)  
Lectr.

Fullagar, W. K., B.A., LL.B.  
(Wrongs, etc) Lectr.

Herring, E. F., M.A., B.C.L. Ox.  
(Equity) Lectr.

Phillips, P. D., M.A., LL.B. (Mod.  
Polit. Institutions) Lectr.

O'Bryan, N. J. G., LL.B. (Private  
Internat. Law) Lectr.

Coghill, E. H., LL.M. Tutor.

*Mathematics, Pure and Mixed*  
Michell, J. H., M.A. Camb., F.R.S.  
Prof.

Gundersen, G., B.Sc. Sr. Lectr.  
Barnard, R. J. A., M.A. Sr. Lectr.

Belz, M. H., M.Sc. Camb. Sr. Lectr.  
Reilly, Sylvia S., B.Sc. Tutor.

Lowenstern, Edith R., M.A.,  
Dip Ed Tutor.

*Medicine, v. infra*

*Metallurgy* [Prof.  
Greenwood, J. Neill, D.Sc. Manc.  
Thompson, P. F. Sr. Lectr.

*Mining, v. Engineering*

*Music*  
Heinze, B. T., Degré Sup., Schola  
Cantorum, Paris  
Ormond Prof

*Natural Philosophy*  
Laby, T. H., M.A., Sc.D. Camb.,  
F.Inst P. Prof.

Hercus, E. O., M.Sc. N.Z., A.Inst.P.  
Sr. Lectr.

Rogers, J. S., B.A., Dip.Ed., M.Sc.  
Sr. Lectr.

Martin, L. H., Ph.D. (Camb)  
Sr. Lectr

Shearer, J., M.Sc. Evening Lectr.  
Allen, Natalie C. B., B.Sc. N.Z.,  
M.Sc. Sr. Demr.

Nelson, Edith A., M.A., M.Sc.  
Sr. Demr.

2 other Demrs.

*Philos., Mental & Moral*  
Gibson, W. R. B., M.A. Ox. &  
Melb., D.Sc. Ox.

Prof. (on leave).  
Merrylees, W. A., B.Litt. Ox.,  
M.A. Ag. Prof.

Cunningham, K. S., M.A., Dip.Ed.,  
Ph.D. (Columb.)  
Evening Lectr.

Parker, Olga M., M.A. Tutor.  
Atkins, G. A., B.A. Tutor.

*Physics*, v. Nat. Phil.

*Physiology*

Osborne, W. A., M.B., B.Ch. Belf.,  
D.Sc. Tüb. Prof.

Young, W. J., M.Sc. Manc., D.Sc.  
Lond., D.Sc.

Assoc. Prof (*Bio-Chemistry*)

Maxwell, L. A. I., M.Sc., B.Agr.Sc.,  
M.D., B.S. (also Lectr. in  
*Anæsth*) Sr. Lectr.

Barrett, Sir J. W., K.B.E., C.B.,  
C.M.G., M.D., M.S., F.R.C.S.  
Eng. (Ph of Special Senses)  
Sr. Lectr. (Hon.).

3 Demrs.

*Pub. Health*, v. Med.

*Scandinavian Languages*

Lodewyckx, Mrs. A. Instr

*Sociology*

Ball, W. M., B.A. Lectr.

*Spanish*

Clot-Fernandez, R. Instr.

*Veterinary Science*, v. *infra*

*Zoology*

Agar, W. E., M.A. Camb., D.Sc.  
Glas., F.R.S. Prof.

Buchanan, Gwynneth V., D.Sc.  
Sr. Lectr.

Tiegs, O. W., D.Sc. Adel  
Sr. Lectr. (on leave).

Raff, Janet W., M.Sc.  
Lectr. (Agric Entomology)  
and Sr. Demr.

**Medicine** (for subjects of first  
2 yrs—Anat., etc., v. *supra*)

*Anæsthetics*, v. *Physiology*

*Bacteriology*

Woodruff, H. A., M.R.C.S.,  
L.R.C.P. Dir.

Rennie, Hilda M., M.B., B.S.  
Sr. Demr.

Gundersen, Sara E., B.Sc., M.B.,  
B.S. Sr. Demr.

*Clinical M. and Clin. Surg.*  
Staffs of the Melb., Alfred, and St.  
Vincent's Hospls.

*Ethics*, Med.

[Lectr.  
Anderson, A. V. M., M.D., B.S.]

*Forensic M.*

Mollison, C. H., M.B., B.S.,  
M.R.C.S. Eng. Lectr.

*Mat Med and Pharmacy*

Stanton, B. L., M.B., B.S. Lectr.

*M. Theory and Practice*

Latham, L. S., M.D., B.S., M.A.  
Stewart Lectr.

Hiller, K., M.D., B.S. Lectr

Sewell, S. V., M.D., B.S. Lectr.

Silberberg, M. D., M.D., B.S.  
Lectr.

*Obst. and Gynæc*

Wilson, A. M., M.D., B.S. Melb.  
Lectr.

*Pathology*

MacCallum, P., M.C., M.A., M.Sc.  
(N.Z.), M.B., Ch.B., D.P.H.  
Edin. Prof.

Apperly, F. L., M.A., M.D., B.Ch.  
Ox., M.R.C.S., L.R.C.P., D.Sc.

..... Sr. Lectr.  
Stewart Lectr

Brown, C. J. O., M.D., B.S.  
Sr. Demr.

*Pub Health* [Lectr.]

Kerr, F. R., M.D., B.S., D.P.H.

*Radiology*

[Lectr.  
Cross, K. S., M.Sc., M.D., B.S.]

*Surgery*

Kilvington, B., M.D., M.S.  
Stewart Lectr (on leave).

Hurley, T. E. V., C.M.G., M.D.,  
M.S., F.R.C.S. Lectr.

Zwar, B. T., M.D., M.S. Lectr.

Devine, H. B., M.B., M.S. Lectr.

Hailes, W. A., M.B., B.S. Lectr.

Upjohn, W. G. D., M.D., M.S.  
Lectr.

*Therapeutics*

Cowen, S. O., M.D., B.S. Lectr.

<i>Venereal Diseases</i>	<i>V. Parasitology</i>
Morris, A. E., M.B., B.S.    Lectr.	Sweet, Georgina, D.Sc. Sr. Lectr. (Hon.).
<i>Veterinary Science</i>	<i>V. Pathology, etc.</i>
Woodruff, H. A., M.R.C.V.S., M.R.C.S. Eng., L.R.C.P. Lond. Prof	Albiston, H. E., B.V.Sc.    Lectr.
<i>Zootechny, Therapeutics, and Toxicology</i>	<i>University Extension</i>
Bordeaux, E. F. J., B.V.Sc., B. ès L., G.M.V.C    Lectr.	Gunn, Prof. J. Alexander, M.A., Ph.D. Liv., B.Sc. Lond Director.
	15 Tutors

## AFFILIATED COLLEGES

I.—RESIDENTIAL—Controlled by representatives of the Churches but open to members of all religious denominations

TRINITY COLLEGE (Church of England). Warden, J. C. V. Behan, M.A., LL.D. Melb., M.A., B.C.L. Ox. Sub-Warden, G. Taylor, M.A. (West Aust.), LL.M. Other Lectrs.: R. L. Aston, B.Sc., B.E. Syd., M.Sc. (Camb.); Miss E. L. Mollison, M.Sc.; Mrs. E. Wood, B.A.; J. R. Elliott, M.A. (Syd. and Camb.); Miss K. A. Lush, M.A.; Miss V. C. Jennings, M.A. (Melb.), B.A. (Ox.), K. O. Fairley, M.D., B.S., M.R.C.P. (Eng.); C. H. Osborn, M.B., B.S., F.R.C.S. (Eng.)

ORMOND COLLEGE (Presbyterian). Master, D. K. Picken, M.A. Camb., Glas., and Melb.; Vice-Master, H. W. Allen, M.A. Other Lectrs.: Miss E. I. Mollison, M.Sc.; F. H. Campbell, D.Sc.; Mrs. E. Wood, B.A.; H. R. Dew, M.B., B.S., F.R.C.S. (Lond.); C. J. O. Brown, M.D., B.S., F.R.C.S. (Lond.); O. de R. Foenander, LL.M.; Miss K. A. Lush, M.A.; A. D. Ross, M.A., R. O. Cherry, M.Sc.; G. Finlay, L.D.S., B.D.Sc.; G. O. Thomas, B.C.E.

QUEEN'S COLLEGE (Methodist). Master, Rev. E. H. Sugden, B.A., B.Sc. Lond., Litt.D., Vice-Master, J. Shearer, B.A., M.Sc., F.R.A.S., Miss E. I. Mollison, M.Sc.; L. E. Hurley, M.D., M.S., Mrs. E. Wood, B.A., E. H. Brownbill, B.E.E., B.M.E., J. F. Foster, B.A., LL.M., G. Atkins, B.A., Miss E. Lothian, B.A., T. O. Graham, M.Sc.; H. S. W. Massey, B.Sc., G. Finlay, L.D.S., B.D.Sc., E. L. Cooper, M.B., B.S.

NEWMAN COLLEGE (R.C.). Rector, V. Rev. J. M. Murphy, S.J., M.A. Dean W. Ryan, S.J., M.A., F.G.S., Dip.Ed. Resident Tutors D. Kelly, S.J., M.A., J. X. O'Driscoll, B.A., LL.M., J. F. Mulvany, M.A., LL.B. Non-Resident: R. F. O'Sullivan, M.B., B.S., F.R.C.S.; H. B. Devine, M.B., M.S.; Miss I. C. Cookson, B.Sc.; E. Prendergast, M.B., B.S.; T. King, M.D., B.S.; J. A. Clarebrough, D.D.S.; J. G. Hayden, M.D., B.S.; L. M. Tighe, M.B., B.S.; R. V. Hennessy, M.B., B.S., D.D.Sc., F.R.C.S., L.D.S.; Miss S. Altmann, B.Sc.

II AUSTRALIAN COLLEGE OF DENTISTRY. President G. Finlay, L.D.S., B.D.Sc., Prof. F. C. Wilkinson, M.D., Ch.B., B.D.S. Liv. Other Lecturers (excluding those on Univ. staff): Allen, C. E., L.D.S., D.D.Sc.; Parrett, F. S., L.D.S., B.D.Sc.; Maclure, A. F., M.D., B.S., F.R.C.S. (Eng.); Clark, J. K., L.D.S., D.D.Sc.; Tuckfield, W. J., M.A.C.D., F.A.C.D., D.Sc. Chic.; Down, C. H., L.D.S., B.D.Sc.; Wilkinson, W. S., B.D.Sc., L.D.S., D.D.S.



## GENERAL INFORMATION

The Univ. was founded in 1853 by Act of the Victorian Legislature. In 1923 a new University Act was passed, increasing the annual endowment for general purposes to £45,000, providing an additional grant of £8500 for Univ. Extension, a Department of Commerce, and Research, and making constitutional changes. The Council is now composed of 31 members—10 elected by graduates; representatives of the teaching staff (5), of affiliated colleges (2), under-graduates (2); 8 appointed by the Govt. (3 being members of Parliament, the others representing business interests and technical schools); 2 *ex officio*; and 2 co-opted members. The legislative functions of the old Senate were transferred to a Standing Committee which, in addition, may submit any matter it pleases for the consideration of the Council. Recognition was accorded in the Act to the Professorial Board and the Faculties. The grounds, 104 acres, include four 10-acre College sites surrounding a recreation ground of 16 acres.

**LIBRARY**, including the Med. and Chem. Departs., 63,000 vols. **MUSEUMS AND LABS.**, Anat., Biol., Engin., Geol., Path. (18,000 specimens), Vet. **LABORATORIES**, Agric., Bact. (investigations undertaken for Govt. Hospitals and Med. practrs.), Chem., Dent., Metall. and Mining (with 3 head stamp battery), Physics, Physiol. **VET. RESEARCH INSTITUTE** **WERRIBEE RESEARCH FARM.** **HALL RESEARCH INSTITUTE** in connexion with Melbourne Hospl.

**FACULTIES.** Arts, Sc., Law, Med., Dent., Vet. Sc., Engin. (including Archit., Metall., Mining), Agric., Educn., Commerce

**DEGREE COURSES** · 3 yrs.—B.A. (ordy. and with Honrs.), B.Sc., B.Com.; 4 yrs.—B.Sc. (Honrs.), LL.B., Mus.Bac., B.D.Sc., Lic.V.Sc., B.V.Sc., B.C.E., B.M.E., B.Met.E., B.E.E., B.Mech.E., B.Agric.Sc.; 5½ yrs.—M.B., B.S.

The first 2 years for the LL.B. may be those of the Arts course. The 2nd year of the B.Agr.Sc. course is passed at Werribee Research Farm.

**HIGHER DEGREES.** Open to Bachelors of 1 yr.'s standing—LL.M., M.V.Sc.; 2 yrs.—M.A., M.Sc., M.D., M.S., D.D.Sc., M.C.E., etc.; 3 yrs.—Mus.D., D.V.Sc.; 4 yrs.—D.Sc., LL.D.; 5 yrs.—D.Eng.; 7 yrs.—D.Litt. Courses of **MEDICAL POST-GRADUATION STUDY** arranged by special Committee on which Univ. is represented.

**DIPLOMAS** (which except Dip.Ed. and Archit. can be taken without Matricn.) Educn., 3 yrs.' course, which may include 2 yrs. of the course for any degree in the Univ.; Analyt. Chem., 9 mos. following Final Hons. in Chem.; D.P.H., open to Med. grads. of Melb. of 1 yr.'s standing and persons who have for 1 yr. been qualified for registration as Med. practr. in U.K., 9 mos.; D.T.M., open to Aus. Med. practrs. of 1 yr.'s standing, 3 mos.; Archit., 4 yrs.; Agric., 4 yrs.; Commerce, 3 yrs.

**SCHOLARSHIPS, ETC.** Aggregate annual value about £14,000. Among the more important are Research Fellowships of £500 each, Research Scholarships up to £200, and combined Research and Teaching foundations.

The Act of 1923 provided for the admission of the following free students: 15 certificated teachers of the Education Dept. *per annum*; 5 other Govt. officers *per annum*; 50 other persons *per annum*. All other certificated teachers and students of Training Colleges are admitted at half fees.

A *Students' Loan Fund* has assets exceeding £35,000.

**RESIDENCE.** The Affiliated Colls. (*v. supra*) accommodate over 400 resident students.

**ADULT EDUCATION.** Tutorial classes are conducted in the city and suburbs and 6 country centres.

**PUBLIC EXAMINATIONS.** School Intermediate and School Leaving are held by the Univ. annually in Dec.; the Intermediate qualifies for entry into the State Public Service, the School Leaving certif. qualifies for matricn. The Univ. also arranges for the Inspection of Secondary Schools.

**PUBLICATIONS.** *Calendar*, 3s. net, includes list of publicns. by members of staff; *Examns. Papers*, 1s., *Students' Handbook*, 1s.; *Handbook of Pub. Examns.*, 2s. 6d.; *Conservatorium Prospectus*, *Manual of Pub. Examns. in Music*. Students' journals *Melb. Univ. Magazine*; *Farrago* (weekly), *Speculum* (Medical), *The Margin* (Commerce).

The UNIVERSITY PRESS, founded in 1921, has published several important books by members of the Univ., embodying results of research in subjects peculiar to Australia. Messrs. Macmillan & Co. act as distributing agents. It conducts an exchange business in text-books, and caters for students' requirements in stationery and apparatus.

## THE YEAR 1927-28

**BENEFACTIONS.** D. E. Lewis, £2000, Engineering Extension; Estate, Miss E. C. Hickman, £592, Scholarships; Subscribers, £500, Liet Memorial Prizes, Mac Robertson, £500, Bacteriology Dept., A. N. T., £500, General purposes.

**INTERCHANGE OF TEACHERS** Sir John Russell, of Rothamsted, visited Australia from May to July and lectured in the Universities. Prof. R. S. Conway of Manchester did so in September. Dr. J. E. Russell, Prof. of Education of Teachers' College, Columbia Univ., New York, visited the Universities as Visiting Carnegie Professor.

**STUDENTS** (1927). Total, 2992; not attending lectures but receiving tuition by correspondence, 209.

**UNIV. EXTENSION.** Tutorial class students, 1192; extension lectures, 90; wireless "lecturettes," 52.

**DEGREES** B.A., 105; M.A., 39; B.Sc., 31; M.Sc., 13; D.Sc., 3; LL.B., 44; LL.M., 2; LL.D., 2; B.C.E., 17; M.C.E., 2; B.E.E., 10; M.E.E., 1; B.M.A.E., 2; B.Mech.E., 5; M.Mech.E., 1; Mus.Bac., 5; B.D.Sc., 15; B.V.Sc., 1; B.Ag.Sc., 5; M.Ag.Sc., 2; M.B., B.S., 45; M.D., 9; M.S., 4; B.Com., 18.

# UNIVERSITY OF QUEENSLAND, BRISBANE

CHANCELLOR—The Hon Chief Justice J W BLAIR

VICE-CHANCELLOR—W N. ROBERTSON, C B E , M B , Ch M , F.R A S

REGISTRAR AND LIBRARIAN—J F McCAFFREY

## PROFESSORS, LECTURERS, ETC.

<i>Agriculture</i>		[Prof	Munro, A. R., A M.I.C.E.,
Murray, J. K , B A , B Sc. (Agr )			A.M I.M.E.
McMillan, J. R. A , B Sc (Agr ),			Sr. Demr. & Asst. Lectr.
M Sc (Part-time) Lectr			8 Hon. Lectrs.
<i>Biology</i>			<i>English Language and Lit.</i>
Goddard, E. J , B A , D.Sc Syd.			Stable, J. J., M.A. Camb.
		Prof	McCaughey Prof.
Cayzer, A , B Sc Syd		Lectr	
Herbert, D. A , M Sc		Lectr.	<i>Geology and Mineralogy</i>
Hardy, G. H.			Richards, H. C., D.Sc. Melb.
		Fellow in Economic B.	Prof.
<i>Chemistry</i>			Bryan, W. H , M Sc. Lectr.
Steele, B. D , D Sc Melb , F I C ,			Whitehouse, F. W , M.Sc , Ph D.
F R S.		Prof	
Bagster, L. S , B Sc Melb , D Sc.			<i>History and Economic Science</i>
(Applied C )		Lectr	Alcock, H., M.A. Ox.
Jones, T G H , M Sc Syd , A I C			McCaughey Prof.
		Lectr.	Melbourne, A C. V., M A. Adel.
O'Connor, E. A., M.Sc. Melb.			Lectr. in Econ. and
		Sr. Demr. & Asst. Lectr	Colonial H.
Perkins, F. A , B Sc Agric.			Gifford, J. L. K., M A. Glas.
		Research Fellow in Applied C.	Lectr.
<i>Classics</i>			<i>Law</i>
Michie, J. L , M A. Camb		Prof.	Cumbræ-Stewart, F. W. S , D.C.L.
Castlehow, S , M.A. Ox.		Lectr.	Ox , Barr.-at-Law
			Garrick Prof.
<i>Engineering</i>			<i>Mathematics</i>
Hawken, R. W. H , B A., M E.			Priestley, H. J., M.A. Camb.
Syd , M.I.C.E		Prof.	Prof.
Boyd, A , D.Sc Lond , B E ,			Priest, H. J., B.A., B.Sc. Adel.
M I E E , A M I C E			Lectr
		Lectr. (Mech & El E ).	Simonds, E. F., M.A., Ph.D.
Ross, C. N , M Sc., B.M.E. Melb.			McCarthy, J. P., M.A.
		Lectr. (Civ. E.).	Evening Lectr.

*Medical Psychology*

Lowson, J. P., M.A., M.D. Edin.  
Research Prof.

*Modern Languages*

Robinson, F. W., M.A. Syd., Ph D  
Jena Lectr.  
Schindler, C., M.A. Lectr  
Tommerup, H. G., M.A.  
(Part-time) Lectr

*Philosophy*

Scott-Fletcher, M., M.A. Syd.,  
B Litt. Ox Prof.  
Kyle, W. M., M.A. Lectr

*Physics*

Parnell, T., M.A. Camb. Prof.  
Lusby, S. G., M.A. Syd. Asst Prof.  
Rimmer, T., M.Sc. Manc.  
Sr Demr & Asst. Lectr.

*Surveying*

James, F. W., B.Sc.  
Part-time Lectr.

*External Studies*

Jones, T. E., B.A. Syd. Director.  
Darvall, Annie E., B.A. Asst.

*Workers' Tutorial Classes*

Molesworth, B. H., M.A. Director.

## RECOGNIZED RESIDENTIAL COLLEGES

EMMANUEL (Presb.). Principal—Mervyn Henderson, M.A. Camb.

St. JOHN'S (C of E) Warden—Rev Canon B. P. Robin, B.A.

KING'S (Methodist) Master—H. H. Triggs, M.A., B.D.

St. LEO'S (R.C.). Rector—Rev. E. A. Stanaway.

WOMEN'S (undenominational). Principal—Freda Bage, M.Sc. Melb., F.L.S.

## GENERAL INFORMATION

The Univ. was established by an Act of the local legislature in 1909. The entire management and control are in the hands of a Senate of 20 members, of whom 10 were appointed by the Government and 10 were elected by the Council (consisting of all members and past members of the Senate, graduates of the Univ. of 3 yrs' standing, persons appointed by the Govt. as representatives of Commercial, Industrial, Scientific, etc., Assocns, benefactors, etc.). The annual grant from Govt. was £10,000 until 1917, when it was raised to £15,000. In 1922 it was raised to £20,000. Under the will of the late Sir Samuel McCaughey the Univ. receives an annual income of about £8500.

The grounds, facing the Brisbane River and adjoining the Botanical Gardens, include, in addition to the main building and recreation grounds, 6 departmental buildings and the Central Technical College.

**LIBRARY**, 30,000 vols. **LABORATORIES**: Biol, Chem, Applied Chem., Engin, Geol, Metall. and Assaying, Physics.

**FACULTIES** Arts, Science, Engineering, Agriculture, Commercial Studies, Law, Medicine. Only the first five have been organized for imparting instruction.

**DEGREE COURSES.** 3 yrs.—B.A., B.Sc.; 4 yrs.—B.Sc. Honours, B.Sc. Agr., B.Sc. (Applied) in Industrial Chem., B.E. in Civ., Mech. and Elec., Chem., or Mining Engin, I.L.B.

*A Diploma Course* in Mech and Elec. Engin (may be followed in any approved Coll or Instn), 4 yrs.; a Diploma course of at least 2 yrs. for persons who have had 3 yrs' practical experience of Journalism; a Diploma of Commerce, and a Commercial Certificate are offered.

**HIGHER DEGREES.** M.A. and M.Sc., open to B.A. and B.Sc. of 2 yrs.' standing, through examn. (M.A., examn and thesis). M.E., open to B.E. of 3 yrs.' standing, 25 yrs. of age, engaged in professional work. D.Sc. open to M.Sc. of 5 yrs.' standing by examn. and thesis.

**EVENING LECTURES AND EXTERNAL STUDENTS.** Evening students may extend their course over 5 yrs. in Arts and Sc. No evening work in Engin. subjects is done, but by 5 yrs. of evening work elsewhere exemption from the first 2 yrs. of the B.E. course may be obtained.

Persons who having matriculated are unable to attend lectures at or in connexion with the Univ. may pursue certain courses under the guidance of the Director of Correspondence studies. They may thereby, provided they pass the prescribed examns. (which may be held at local centres), qualify for a B.A. degree.

**ADULT MATRICULATION.** Candidates who have attained the age of 25 yrs. may be admitted to matricn. in the Faculties of Arts, Science, and Engineering upon passing a special examn.

**SCHOLARSHIPS, ETC., FOR GRADUATES** 2 gold medals offered by Govt. for distinction at graduation; £100 for 2 yrs. for Chem. Research; £200 for 1 yr. for Engin. work; £250 for study outside Australasia; £300 for 3 yrs. (W. and E. Hall Foundation), of which 2 to be spent abroad in Engin. Research; £500 for 2 yrs. in Econ. Biol.

**RESIDENCE.** Undergraduates are required to reside with their parents or approved friends or a tutor or in a recognized Residential Coll. or boarding-house licensed by the Senate. Fees in the Colleges, including residence, commons, and tuition, 20 gs. a term (Women's £20, St. Leo's £20).

**PUBLIC EXAMINATIONS** are held by the Univ. annually in Nov. and Dec.: Junior, Junior Commercial, and Senior. For matriculation the corresponding public examns. of the Univs. of Adelaide, Melbourne, and Sydney are treated as equivalent to these.

**PUBLICATIONS** *Calendar*, 2s. 6d., *Manual of Pub. Examns.*, 1s.

## THE YEAR 1926 (return for 1927 not received)

**NEW FACULTY** A Faculty of Agriculture was created and a professor and a part-time lecturer appointed.

**NEW POSTS.** A second lectureship in Geology and Mineralogy and a second full-time lectureship in Maths. (in place of the part-time evening lectureship).

**DEATH.** W. M. Nelson, part-time lectr. in Engineering.

**STUDENTS.** Matriculated, 114. Evening students, 105. External, 178. Grand total, 481.

**DEGREES.** B.A., 27; M.A., 1; B.Sc., 13; M.Sc., 2; B.E., 10; M.E., 1; D.Sc., 1.

# UNIVERSITY OF SYDNEY

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—HON. SIR WILLIAM PORTUS CULLEN, K.C.M.G., M.A., LL.D.

DEPUTY-CHANCELLOR—SIR MUNGO MACCALLUM, K.C.M.G., M.A., LL.D., D.Litt.

VICE-CHANCELLOR—R. S. WALLACE, M.A. (Aber. and Ox.), LL.D. (Aber.)

REGISTRAR—W. A. SELLE, M.A.

LIBRARIAN—H. M. GREEN, B.A., LL.B.

TUTOR TO WOMEN STUDENTS—ISABEL M. FIDLER, B.A.

## PROFESSORS, LECTURERS, ETC.

*Accountancy*, v. Com.

*Agriculture*

Watt, R. D., M.A., B.Sc. Prof  
Lectrs. :

Waterhouse, W. L., B.Sc. Agr.  
(Plant Path. and Agr. Bot.)

Wright, G. (A. Chem.)

Anderson, R. H., B.Sc. Agr. (Forestry).

Wolstenholme, E. K., F.L.S. (Fruit Culture).

*Anatomy*

Burkitt, A. N. St. G. H., M.B., B.Sc. Challis Prof.

Stump, C. W., M.D., D.Sc. (Ed.)  
(Histology and Embryology)  
Bosch Prof.

Lectrs. :

Wilkinson, H. J., M.B., Ch.M.  
Senior Lectr.

Coppleson, V. M., M.B., Ch.M.

Matthews, G. P.

Garde, Mary L., B.Sc.

Demrs. :

Shortland, L. J., B.A., M.B., Ch.M.

Nowland, R. E., M.B., Ch.M.

Smith, N. Ross, M.B., Ch.M.

*Anthropology* [Prof

Brown, A. Radcliffe, M.A. Camb

Wedgwood, C. H., B.A. Camb.

*Architecture* [Prof.

Wilkinson, L., F.R.I.B.A., F.I.A.  
Hook, A. S., A.R.C.A. (Pract. and Constn.) Assoc. Prof.

Carter, N. (Freehand Dr.) Instr.

Moore, J. D. (Design) Lectr.

Richardson, R. Demr.

Harris, R. K., A.R.I.B.A. (Town Planning) Lectr.

1 Studio Asst.

*Astronomy*

..... Prof.

Sawkins, D. T. (v. Econ.)

Lectr. (Geodesy & A.)

*Botany*, v. also Agric.

Osborn, T. G. B., D.Sc. Man.

McLuckie, J., M.A. Glas., D.Sc.

Asst. Prof.

Brough, P., M.A., B.Sc., B.Sc. Agr.

Glas. Lectr. & Demr.

2 other Demrs.

*Chemistry*

Fawsitt, C. E., D.Sc. Edin., Ph.D.

Leip Prof.

Lectrs. & Demrs. :

Burrows, G. J., B.Sc.

Brereton, E. Le G., B.Sc.

Lions, F., B.Sc., Ph.D. Manc.

Iredale, T., B.Sc. Syd., D.Sc.

Lond.

3 other Demrs.

*Chem., Organic, Pure and Applied*

Earl, J. C., D.Sc. Adel., Ph.D. St. And. Prof.  
 Carter, P. G., B.Sc., Ph.D. St. And. Lectr.  
 Trikojus, V. M., B.Sc., Ph D Lectr.  
 1 Demr.

*Classics*

Woodhouse, W. J., M.A. Ox (Greek) Prof  
 Todd, F. A., B.A., Ph.D. Jena (Latin) Prof  
 Powe, A. B., M.A. Q'ld (Latin) Lectr.  
 Robinson, A. H., M.A. (Latin) Lectr.  
 Shipp, G. P., B A. (Latin) Lectr.

*Commerce*

[Lectr  
 Kerr, I. W, B Ec (Acctcy )  
 Ovington, R. (Business) Lectr  
 Bradley, W. J, B A, LL B (Com and Indust. Law) Lectr

*Dentistry, v. infra**Economics*

Mills, R. C., LL.M Melb, D.Sc. Econ Lond. Dean and Prof.  
 Benham, F C, B Sc, Ph.D Lond (Econ) Lectr.  
 Walker, E R, B A. Lectr.  
 Portus, G. V., B.Litt. Ox., M A. (E. Hist) Lectr.  
 Bland, F. A., M.A, LL B (Pub. Admn.) Lectr.  
 Watts, P. R., B.A, LL.B. (Mod. Pol. Institutions) Lectr.  
 Sawkins, D. T, B.A. Camb., M.A. (Statistics) Lectr.

*Education*

Mackie, A., M.A. Prof.  
 Cole, P. R, M.A., Ph.D Col Lectr.  
 Roberts, T. T., M.A. Lectr.  
 Phillips, G. E., M.A., D.Sc. Lectr.

*Engineering, v. infra**English Language*

Holme, E. R., O.B.E., M.A. McCaughey Prof.

*English Literature*

MacCallum, Sir Mungo W., M.A., LL.D. Glas, D Litt. Hon. Prof.  
 Brereton, J. Le Gay, B.A. Prof.  
 Waldock, A. J. A., M.A. Lectr.

*Forestry, v. Agric.**French*

Nicholson, G. G, C.B.E., B C.L. Ox., M.A Prof.  
 Marks, Gladys, B A. Lectr.  
 Barbier, C. H Lectr.

*Geodesy, v. Astron.**Geography*

. . . . . McCaughey Assoc Prof  
 2 Demrs.

*Geology and Phys. Geog.*

Cotton, L. A, M A., D.Sc. Prof. & Hovell Lectr.  
 Browne, W. R, D.Sc. Asst. Prof.  
 Waterhouse, L. L., B.E. Lectr & Demr.

Osborne, G. D., B Sc Lectr. and Demr.  
 Powell, Dorothy E., B.Sc. Demr.  
 Dun, W. S. (Palæont) Lectr.  
 Quodling, Florrie M., B.Sc. Demr.

*German and Comparative Lit.*

Waterhouse, E. G., M.A. McCaughey Assoc. Prof.

*History, v. also Econ.*

. . . . . Challis Prof.  
 Bruce, J. F., B.A. Ox., M.A. Assoc. Prof.

*Japanese, v. Oriental**Law, v. infra**Mathematics, Pure and Applied*

Carlsaw, H. S, M.A., Sc.D. Camb, D.Sc. Glas. Prof.  
 Wellish, E. M., B.A. Camb., M.A. (Appl. M.) Assoc. Prof.  
 Lyons, R. J., B.A. Camb. Lectr.

Thorne, H. H., M.A. Camb., B.Sc.  
Lectr.

*Medicine, v. infra*

*Mining*

Power, F. D., F.G.S. Russell Lectr.

*Oriental Studies*

Sadler, A. L., M A. Ox. Prof

Kitakoji, I. (Japanese) Reader.

*Philosophy*

[Challis Prof  
Anderson, J, M A Glas

*Physics*

Vonwiller, O. U., B.Sc. Prof.

Bailey, V. A., M.A., D.Ph. Ox.  
Assoc. Prof

Lectrs. & Demrs. ;

Booth, E. H., B.Sc.

Briggs, G. H., B Sc., Ph D Camb.  
4 other Demrs

*Physiology*

..... Prof

Priestley, H., M D, Ch.M., B Sc  
McCaughy Assoc. Prof.

Lectrs. & Demrs. :

Cotton, F S, B.Sc.

McQuiggin, H G., M.B., Ch.M.,  
B.Sc.

Wardlaw, H. S. H., D.Sc.

Hindmarsh, Ellen M, B Sc.

Demrs. :

Cooksey, T., B.Sc., Ph D

Archer, H. R., B.Sc. Melb.

*Preventive Medicine*

Sutton, Harvey, M D, Ch B,  
D.P.H. Melb., B.Sc. Ox.  
Lectr.

*Psychology*

Lovell, H. T., M.A., Ph D. Jena  
McCaughy Assoc. Prof.  
Martin, A. H., M A, Ph D. Col.

Lectr.

Dingle, J. T, B A.

Demr

*Veterinary Science*

Stewart, J. D., M.R.C.V.S.,  
B.V.Sc. Prof.

Carne, H. R., B.V.Sc. Lectr.

Gunn, R. M. C., B Sc (Agr),  
Birm. & Syd, M R.C.V Sc  
(Surg. & Anat) Lectr.

Henry, M., B V Sc. (Vet. Juris )  
Lectr.

Clunies-Ross, I., D.V.Sc. (Vet,  
Parasitology).

Walters, C J. M., M B, Ch M.,  
B V Sc (Vet Med and  
Pharm) Lectr

Drabble, J, B.V.Sc. (Meat In-  
spection) Lectr

Whitehouse, E, B V.Sc (Zoo-  
techny) Lectr

*Zoology*

Dakin, W J, D Sc. Liv, F L S,  
F Z S Challis Prof

Briggs, E. A., M.Sc.  
Lectr. & Demr.

Murray, P D. F, D Sc  
Lectr. & Demr.

Richardson, K. E, B Sc. Demr.

Nicholson, A. J., M Sc. Manc.  
(Entom) McCaughy Lectr.

*Engineering*

Miller, W. A., B Sc, M E,  
A.M.I.C.E. Challis Prof.

Craig, A. D., B A., B E (Survey-  
ing) Asst Prof.

Vogan, H. J., B E  
Lectr. & Demr.

Leech, T. D. J., B.Sc., B E.  
Lectr & Demr.

Bickford, C. R. Lectr.

Larkins, H M, B E Lectr

Nicol, T B, B Sc., B.E. Lectr.

Vicars, J, M E. Lectr

Hodgson, C. A., M.A. Camb.  
Lectr.

3 Demrs.

*Electrical E.*

Madsen, J. P. V., B.E., D.Sc.  
Adel. Russell Prof.

Lectrs. & Demrs. :

Sharp, L. H., B.Sc., B.E.

Campbell, E. F., B.E.



*Mechanical E.*

Barracrough, Sir S H. E., K.B.E.,  
M.M.E. Corn., B.E., M.I.M.E.,  
M.I.C.E. Russell Prof.  
Sutherland, G. F., A.R.C.S.

Asst. Prof.

*Lectrs & Demrs. :*

Swain, H. J., B.A., B.Sc., B.E.  
Gibson, W. H. H., B.Sc., B.E.  
Hart, K. R. M., B.Sc., B.E.  
3 Hon. Lectrs.

*Technology and Metallurgy*

Eastaugh, F. A., A.R.S.M., F.I.C.  
Assoc Prof.

*Law, v. also Com*

Peden, The Hon J. B., M.L.C.,  
B.A., LL.B., K.C.  
Challis Prof.

*International Law & Jurispr*

Charteris, A. H., M.A., LL.B.  
Edin Challis Prof.

*Contracts, Merc Law, Torts*

Sugerman, B., LL.B.  
Challis Lectr

*Equity and Company Law*

Roper, E. D., B.A., LL.B.  
Challis Lectr.

*Bankruptcy and Probate*

McDonald, E. F., LL.B.  
Challis Lectr.

*Divorce*

[Challis Lectr.  
Mackenzie, W. K. S., D.S.O., B.A.

*Procedure, Pleading, & Evidence*

Rowland, N. de H., B.A., LL.B.  
Challis Lectr.

*Interpretation*

Chambers, R., B.A., LL.B.  
Challis Lectr.

*Legal Ethics*

..... Lectr.

*Roman Law*

McTiernan, The Hon. E. A., B.A.,  
LL.B. Challis Lectr.

*Criminal Law*

[Lectr.  
Treatt, V. H., B.A., B.C.L. Ox.

*Conveyancing*

Watts, P. R., B.A., LL.B. Reader

*Medicine (for Preventive M. and Anat., Chem, etc, v. supra)**Anæsthetics*

Lidwill, M. C., M.D. Tutor.  
Stokes, E. H., M.B., Ch.M. Tutor.

*Cancer Research*

Chapman, H. G., M.D., B.S.  
Director of Research.  
Sandes, F. P., M.D., Ch.M., B.Sc.  
Director of Treatment  
Stephens, J. C., M.B., Ch.M.

*Radiotherapist*

Byrne, J. M., M.B., Ch.M., B.Sc.  
Med. Biologist.

Moppett, W., M.D., Ch.M.  
Med Biologist.

Bishop, W. B. S., M.Sc.  
Bio-Chemist

Mankin, Winifred R., B.Sc.  
Bio-Chemist.

Newman, R. K., B.Sc.  
Bio-Chemist.

Horning, E. S., M.A. Ox., D.Sc.  
Melb Cytologist

Bannon, J., B.Sc. Physicist  
Love, W. H., B.Sc. Physicist

*Diseases of Ear, Nose, Throat*

Mansfield, W. C., M.B., Ch.M.,  
F.R.C.S. Eng. Lectr.

*Diseases of the Skin*

[Lectr.  
Molesworth, E. H., M.D., Ch.M.

*Ethics of Med. Pract.*

[Lectr.  
Todd, R. H., B.A., M.D., Ch.B.

*Gynæcology*

Davies, R. L., O.B.E., M.B., Ch.M.,  
F.R.C.S. Eng. Lectr.

*Infectious Diseases*

[Hon. Tutor.  
Millard, R. J., C.M.G., M.B., Ch.M.

*Materna Med.*

Macpherson, J., M.A., M.B.,  
Ch.M., B.Sc. Lectr.

Finnemore, H., B.Sc., F.I.C.,  
F.C.S. Lectr. in Pharmacy.

3 Demrs. in Pharmacy.

*Medical Jurispr.* [Lectr

Todd, R. H., B.A., M.D., Ch B.

*Medicine*

Mills, A. E., M.B., Ch M Prof

*Medicine, Clinical*

Gillies, S., M.A., M.D. Lectr.

Blackburn, C. B., O.B.E., M D,  
Ch.M. Lectr.

Fairfax, E. W., M B, Ch M Lectr.

Ritchie, H. J., M.B., Ch M Lectr.

Stephen, E. H. M, M B, Ch M,  
Lectr.

Diethelm, O A, M B., Ch M.

*Med. Tutors*

McDonald, C. G, M.B, Ch.M.

Clayton, H. J, M.B., Ch M.

Willcocks, G. C, M.B.

Evans, Wilfred, M B

Taylor, R J, M B, Ch.M

*Obstetrics*

[Prof.

Windeyer, J C, M D, Ch M.

D'Arcy, Constance E, M B., Ch M  
Lectr.

Ludowici, E, M B., Ch.M. Lectr.

Craig, F. B, M.B., Ch.M. Tutor.

Lowe, C B, M B, Ch M Tutor.

Gibson, A. J., M.B., Ch.M. Tutor.

Hipsley, P. L., M.D., Ch.M. Demr.

Ridler, H. A., M.B., Ch M. Demr.

Farquharson, Alice M. Demr.

*Ophthalmology*

Waddy, R. G, M.B., Ch.M. Lectr.

*Pathology*Welsh, D. A., M.A., B.Sc., M.D.,  
F.R.C.P. Edin. Prof

Inglis, W. K., M.D., Ch.M.

Lectr. &amp; Chief Demr.

Walker, A S., M.D, Ch M Demr

Welsh, A M, M B., Ch M. Demr

*Hon. Demrs. :*

Hughes, L. H., M.D., Ch M.

Latham, O., M B., Ch M.

Munro, A. Watson, M D

Silverton, R. J., M.B., Ch.M.

*Pharmacy, v. Materia Med.**Psychiatry*Dawson, Wm. S, D.M. Ox.,  
D.P.M Prof.*Surgery*Edye, B T., M.B., Ch M, F.R.C.S.  
(Eng.)

Acting McCaughey Prof.

*Surgery, Clinical*Abbott, G. H, B.A, M.B.,  
Ch.M. Lectr.Dansey, J. St. J., M B, Ch.M.  
Lectr.

Storey, J C, M B, Ch M Lectr.

McKelvey, J L., M.B, Ch.M.  
Lectr.

Stacy, H S, M D, Ch M Lectr.

Wade, R. B, M.D, Ch.M. Lectr.

Farranridge, T, M.B., Ch M.  
Tutor.Ramsay Sharp, W. A, M.B.,  
Ch M., F.R.C.S. (Edm)  
Tutor.*Dental Science*Reading, R.F., M R C S, L.R.C.P.,  
L.D.S. Eng. McCaughey Prof.

Burne, A. D, D.D.S. Lectr.

Marshall, F., D.D.S (Mech D)  
Lectr.Gates, E C., D.D.S (Cln. D.)  
Lectr.

Ash, P. A., D D S. (Surg. D.) Lectr.

Smith, Donald (Surg. D.) Lectr.

Charlton, P. C, D.D.S, (Dental  
Mat. Med.) Lectr.

2 Demrs.

*University Extension*Mackay, I. G., C.M.G., D.S.O.,  
B.A. Secy. to the Board.Portus, G V. (v. *supra*, Econ.)  
Dir of Tutorial Classes.Bland, F. A. (v. *supra*, Econ.)  
Asst. Director.1 full-time tutor and 49 tutorial  
class lectrs.

## COLLEGES WITHIN THE UNIVERSITY

ST. PAUL'S COLLEGE (Anglican) Warden—Rev. A. H. Garnsey, M.A., Lectr. in *Div. and Classics*. Sub-Warden—V. H. Treatt, B.A. Syd., B.A., B.C.L. Ox., Lectr. in *Law*. W. C. B. Harvey, M.B., M.Sc., Lectr. in *Med. Philosophy*—S. S. Ick-Hewins. *Science*—F. H. H. Wilson, B.Sc. *Surgery*—V. M. Coppleson, M.B., Ch.M. *Pathology*—J. W. S. Laidley, M.B., Ch.M.

ST. JOHN'S COLLEGE (R.C.). Rector—Very Rev. M. J. O'Reilly, D.D., Lectr. in *Christian Apologetics and English*. Vice-Rector—Rev. J. P. Slattery, C.M. Other Lectrs.: *Med.*—J. Coen, M.B., Ch.M. *Surg.*—M. R. Flynn, M.B., Ch.M. *Scholastic Philos.*—Rev. W. Keane, M.A. *Law*—T. P. Flattery, M.A., LL.B. *Maths. and Physics*—J. D. McGee, B.Sc. *Gynæcology*—D. Foy, M.B., Ch.M.

ST. ANDREW'S COLLEGE (Presb.) Principal—E. E. Anderson, M.A., D.D. Aberd. Vice-Principal—A. C. Wallace, B.A. Secretary—S. J. Carruthers. Hunter-Bailie Profs. *Oriental and Polynesian Langs.*—E. E. Anderson, M.A., D.D. *English*—K. Edward, M.A., D.Phil. Lectrs.: *Med.*—T. M. Greenaway, M.B., Ch.M. *Science*—G. H. Clarke, B.Sc. (*Biol.*); J. G. Stephens, M.B., Ch.M.; K. H. Lauder, M.Sc. (*Phys. and Chem.*). *Religion*—The Principal *Engl., Hist., and Philos.*—A. C. Wallace, B.A. *Engin. and Maths.*—L. S. C. Tippet. *Histology*—L. W. Wing. *Surgery*—T. Farranridge, M.B., Ch.M. *Physiology*—C. M. Cotton, B.Sc.

WESLEY COLLEGE (Methodist). Master—Rev. L. E. Bennett, M.A., Melb., B.D. Lond. Tutors: *Philos. and English*—The Master. *Physics*—J. Harrod, B.Sc. *Law*—J. J. Watling, B.A., LL.B. *Botany*—C. Barnard, B.Sc. *Medicine*—A. J. H. Stobo, M.B., Ch.M.; J. C. Storey, M.B., Ch.M.; F. W. Smith, B.Sc.; D. H. K. Lee, B.Sc.

THE WOMEN'S COLLEGE (undenominational). Principal—Miss S. J. Williams, M.A. Melb. and Syd., Lectr. in *Classics*. Tutors: Miss A. MacLellan, B.A. (*French and German*), Miss P. Nicol, M.Sc. (*Physics and Maths.*); Mrs. A. Watt, M.A. (*Philosophy*), Miss T. Reynolds (*Chemistry*); Miss E. M. Tildesley, M.A. (*English*).

SANCTA SOPHIA HALL (R.C. Women). Principal—Rev. Mother J. McRory. Lectrs.: *English and History*—C. Percy-Dove, M.A. *Latin*—F. J. H. Letters, M.A., LL.B. *Maths.*—L. E. Hodge, B.A. *Physiology*—D. Lee, M.Sc.

## GENERAL INFORMATION

Founded by Act of the N.S.W. Legislature in 1850, the Univ. was granted a Royal Charter in 1858. Its development has been largely due to private benefactions, notably those of J. H. Challis—£250,000—in 1880, T. Fisher—£30,000 for Library—in 1885, P. N. Russell—£100,000 for School of Engineering, etc.—in 1896 and 1904, and W. O. Watt, £72,182, 1925-1928. Under the will of Sir S. McCaughey it receives an annual income which amounted in 1927 to £21,880. In 1912 the Statutory endowment was raised from £10,000 to £20,000, with provision for further automatic increases, and at the same time the constitution of the governing body, called the Senate, was altered so as to include 6 nominees of the Govr. and Parliament (one-fourth of the whole number). In 1917-18 the Statutory endowment was further increased to £32,000, including £2000 for the new School of Archit. In 1919 the State provided £50,000 a year for 6 years for additional buildings. The Faculties were in that year increased from 4 to 10. The grounds, which include the sites of the Colleges grouped round an oval, cover 140 acres.

Provision was made by Act of Parliament soon after the foundation of the Univ. for endowing such Colleges as might be established within it, to the extent of £20,000 in aid of building and £500 p.a. towards the Principal's salary.

The LIBRARY, 150,000 vols, receives about 1800 serial publications. MUSEUMS: Nicholson collection of Egypt., Greek, Roman, and Medieval Antiq. (4000 specimens), Macleay Nat Hist, Anat, Geol., and Zool; Obstetric, Materia Medica LABORATORIES Schools of Med, Engin., and Archit. (atelier), Bot, Chem (including Metall and Research), Geol (with rock analysis Research), Phys, Zool The ROYAL PRINCE ALFRED HOSPL, erected on the Univ. grounds as a general hospl and school, has 518 beds. Gladesville mental hospl. recognized by Camb for clinical work for Dip. Psych. Med.

FACULTIES Arts, Law, Med., Science, Engin., Dent, Vet. Sc., Agric., Econ., Archit

DEGREE COURSES: 3 yrs.—B.A., B Sc; 4 yrs.—Honours B Sc., B.Sc. in Agric. (3 after Agric Coll course), B.Ec, LL B. (after completing 1st yr. in Arts or passing Law Entrance Examn), B D S, B V Sc, B.E. (in Civil Engineering, Mechanical and Electrical Engineering, Mining and Metallurgy, or Engineering Technology), 5 yrs.—B Arch, 6 yrs.—M B, B S; 2 yrs.' advanced study or research (after full 3 yrs' course at another Univ)—B.A. or B Sc. The LL.B. qualifies conditionally for admission to the bar Law students usually take the B.A. first, selecting Law subjects in 3rd yr, and complete combined course in 6 yrs., thereby gaining concessions in regard to periods of studentship and service as articled clerk HIGHER DEGREES. Obtainable by bachelors of 2 yrs.' standing—M.A, M Ec., LL.D., M D., M.S., M Sc, 3 yrs —D Sc, M E, 5 yrs —D Sc Eng, D Dent Sc, D V Sc, D Sc.Agr. DIPLOMAS Educn. (for graduates in Arts or Sc), 1 yr's course; Com., 3 yrs; D.P H; D T M, Psychiatry, Anthropology, Journalism. Candidates for the Diploma of the Pharmacy Board have to attend courses in the Univ.

RECOGNITION OF STUDIES ELSEWHERE. A considerable portion (in Med. 3 yrs) of the curriculum for a Degree must be taken in Sydney. Holders of the Diploma of the *Hawkesbury Agricultural College* or any college of similar standing who have passed the Intermediate Certificate Examn. in matriculation subjects may be admitted as matriculated students in Vet. Sc. or Agriculture

SCHOLARSHIPS, ETC., FOR GRADUATES. Junior Demrs. are appointed annually in each Scientific Dept. with the obligation to carry out research under the direction of the Prof.; 6 post-grad. Scholarships of £200 each and 2 of £300 are awarded annually for scientific study and research in the Univ.; 4 Macleay Fellowships of £400 p.a. each are tenable by B.Sc.'s; 4 others of £300 p.a., and 2 Scholps. of £250 p.a., tenable for 2 yrs., are awarded annually for further study and research at Syd. or abroad.

RESIDENCE. The four denominational Colls. (v. *supra*) provide accommodation for about 260 students; the Women's Coll for about 70, and Sancta Sophia Hall for about 35 R.C. women students.

UNIVERSITY EXTENSION LECTURES are given in courses of from 3 upwards in Sydney and numerous local centres. *Tutorial Classes* are provided, as prescribed by the Act of 1912, under the superintendence of a Joint Committee of the Univ. and Workers' Educl. Asscn. of N.S.W. In 1927 the Govt. grant for this purpose was £6370; 57 classes were at work, including 1459 effective students.

**ADULT MATRICULATION.** Persons of distinct educational merit who have attained the age of 25 yrs. may be admitted as matriculated students in the Faculties of Arts, Science, and Econ.

**PUBLICATIONS.** *Calendar* pubd. in June, 3s. 6d., with annual report and list of publicns. of Univ. Staff; Reprints of Scientific Papers by members of the Staff; *Hermes*, an undergrads.' mag., 5s. p.a. (3 issues); The *Union Recorder* (weekly during Term).

## THE YEAR 1927-28

**BENEFACTIONS.** Estate of late W. O. Watt (additional), £8351; Miss Joan Norton, £10,000 for general purposes; Dr. Gordon Craig, £10,000 for Dept. of Urology; Mrs. Eva Kolling, £16,000 for Mechanical Engineering; Proprietors of the *Sydney Morning Herald*, £10,000 for general purposes; G. H. Bosch, £27,000 for establishment of Chair of Histology.

**NEW POSTS.** Director of Cancer Research; Director of Cancer Treatment; Chair of Histology and Embryology

**OTHER DEVELOPMENTS.** Sums amounting to £84,000 have been received in response to the University Appeal launched in July 1927.

**RETIREMENTS** C. E. Bellingham, Dr. C. E. Corlette, Dr. R. I. Furber, J. K. Hawthorne, J. R. Hooton, M. L. MacCallum, K. W. Street, Lucy M. Wood. **DEATH.** Prof. L. Harrison.

**STUDENTS.** Matriculated students, 1909, Post-graduation students, 125; Non-matriculated students, 348.

**DEGREES.** M.A., 13; B.A., 146; LL.D., 1; LL.B., 50; M.D., 2; M.B., 58; B.S., 48; Ch.M., 12; M.Sc., 1; B.Sc., 51; B.E. (Civ., Min. and Met., Mech. and El.), 17; B.D.S., 9; B.V.Sc., 1; B.Sc.Agr., 5; M.Ec., 2; B.Ec., 19.

# UNIVERSITY OF TASMANIA, HOBART

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—HON. SIR NEIL ELLIOTT LEWIS, K.C.M.G., M.A., B.C.L.

VICE-CHANCELLOR—W. J. T. STOPS, LL B.

REGISTRAR—Lt.-Col. L. R. THOMAS, D.S.O., Barr.-at-Law.

LIBRARIAN—E. MORRIS MILLER, M.A., Litt.D.

## PROFESSORS, LECTURERS, ETC.

### *Accountancy and Auditing*

Hewer, A. R., A.I.C.A. Lectr.

### *Biology*

[Ralston Prof.

Flynn, T. T., D Sc Syd

### *Botany*

Rodway, L., C.M.G., F.L.S. Lectr

### *Chemistry*

MacLeod, P. J., B.A. N.Z. Lectr.

Kurth, E. E., B Sc.

Lectr. (Applied Chem ).

### *Classics*

Dunbabin, R. L., M.A Ox. Prof.

### *Economics*

Brigden, J. B., M.A. Ox. Prof.

Hytten, T., B.A Lectr

Judd, W., M.A. Melb. (Hist. and E ) Lectr.

Reid-McIlreavy, Miss M L ,  
B Com Asst Lectr.

### *Education*

Johnston, J. A., M A N Z Lectr.

### *Engineering*

Burn, A., B.E. Syd , M.Sc. Prof

Tuck, H. P., B.Sc , B.E. Adel.

Lectr. (Elec. E ).

Schneider, W. H., B.E. Adel.

Lectr (Mech. E )

Field, J.

Lectr. (Drawing and Design).

### *English Literature*

Taylor, A. B , M.A Ox. Prof.

### *Geology*

Lewis, A. N., M C., LL.M. Lectr.

Nye, P. B , B.M E Melb. Lectr.

Reid, A. McK Lectr.

### *History, v. also Econ.*

King, C S , M A Ox , B.A Lectr.

### *Law*

McDougall, D. G , M A., B C.L.

Ox , M A., LL D Melb Prof.

Griffiths, P. L., M A. Melb , LL.B.  
Lectr.

### *Mathematics*

McAulay, A , B.A Camb , M A.  
Melb Research Prof.

Pitman, E. J G , M.A , B Sc.  
Melb Prof.

Erwin, H D , B.A , B.Sc (R U.I.)  
Lectr.

### *Modern Languages*

Malthus, C., M.A. N.Z. Lectr.

### *Psychology*

Miller, E. Morris, M A , Litt.D.  
Melb. Assoc. Prof.

### *Physics*

McAulay, A. L., B A. Camb.,  
Ph.D. Manc , B.Sc. Prof.

### **Tutorial Class Lectrs.**

Prof. Brigden (Director), the  
Lectrs. in Economics, and 4  
others.

## AFFILIATED SCHOOLS

ZEEHAN SCHOOL OF MINES AND METALLURGY.

MT. LYELL SCHOOL OF MINES AND INDUSTRIES.

HOBART TECHNICAL COLLEGE.

LAUNCESTON TECHNICAL COLLEGE.

## GENERAL INFORMATION

Founded in 1890 under an Act of the Tasmanian Legislature, the Univ. was, in 1915, granted a Royal Charter. To the original Faculties—Arts, Science, and Law—Commerce was added in 1919 and Engineering in 1922. The annual Govt. grant is £11,740.

**ADMISSION OF PERSONS OF MATURE AGE.** Persons not below 25 yrs. of age who satisfy Board of Studies that they possess sufficient qualifications for the courses they propose to pursue may be exempted from the ordinary requirements for matricn.

**LIBRARY**, 20,000 vols. **LABORATORIES**: Chem., Phys., Biol.; Testing plant in Engin. Dept. Facilities for investigation in Elec. Engin. **OBSERVATORY**, 8" reflector telescope.

**DEGREE COURSES**: 3 yrs., B.A., B.Sc., LL.B. (after 1 yr. of Arts course); 4 yrs., B.Com., B.Eng. **HIGHER DEGREES**. Open to Bachelors of 2 yrs.' standing, M.A., M.Sc., LL.M., M.Com.; 3 yrs., D.Sc.; to Masters of 3 yrs.' standing, LL.D. **DIPLOMAS** of the Affiliated Schools: Metal Mining; Metall., Chem., and Assaying. **CERTIFICATE** of Commerce, 2 yrs.' course.

**UNIVERSITY EXTENSION.** Tutorial classes, annual grant, £1780.

**PUBLIC EXAMINATIONS.** Intermediate and Leaving; Music (held in conjunction with other Australian Univs.).

**PUBLICATIONS.** *Calendar* (Aug.), 2s.; *Pub. Examn. Manuals*, 2s.; *Degree Examn. Papers*, 1s. Univ. news appears in *Hobart Mercury*. Students' Magazine, *Platypus*.

## THE YEAR 1927-28

**EXTRA-MURAL WORK** W.E.A. and Tutorial Classes

**VISITS.** Their Royal Highnesses the Duke and Duchess of York. The Australasian Association for the Advancement of Science held its annual meeting at the University.

F. P. Bowden was awarded an 1851 Exhibition.

**STUDENTS.** Full-time: total, 291, including 2 graduates. Part-time total, 75.

**DEGREES.** B.A., 11; B.Sc., 4; M.Sc., 1; B.E., 3; B.Com., 3; LL.B., 5; LL.M., 1.

# UNIVERSITY OF WESTERN AUSTRALIA, PERTH

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Hon. A. J. H. SAW, O B E., M.L C., M A., M D

PRO-CHANCELLOR—CECIL ANDREWS, M A

VICE-CHANCELLOR—Emeritus Professor H E. WHITFELD, B.A., B.E.,  
M I M M.

WARDEN OF CONVOCATION—ROBERTA H M. JULL, M B , C M.

CLERK OF RECORDS—A. S PRESHAW, B A , A.A.I.S.

CLERK OF CONVOCATION—R E PARKER, L I C A

LIBRARIAN—M E. WOOD, B A

## PROFESSORS AND LECTURERS, ETC.

### *Agriculture*

Paterson, J. W , B Sc Edin.,  
Ph D Leip Prof.  
Teakle, L J H , B Sc , Ph D  
Calif Lectr  
Carne, W. M , F L S Lectr.  
Hampshire, P G Lectr.  
Wickens, G W Lectr

Ellhott, G A , Ph D Lond. Lectr.  
Babington, P. Demr.

### *Classics*

Wood, G , M A Aberd and Oxon  
Assoc Prof  
Laidlaw, W A , M A Dub. Lectr.

### *Education*

Cameron, R. G , M A. Syd Prof.

### *Architecture*

Wright, A R L , L R I B A ,  
F R I A W A Lectr

### *English*

[Prof.  
Murdoch, W. L F., M.A. Melb.  
Thompson, H. S , M.A. Lectr.

### *Biology*

Nicholls, G. E., D Sc Lond ,  
A R C Sc. Prof  
Bennet, E W , M Sc Lectr  
Andrews, Evelyn C , M Sc  
Asst. Lectr  
Barnes, Helena M , B Sc. Demr

### *Fine Art*

Morison, G. P. Lectr.

### *Forestry*

Kessell, S L , M Sc Adel , Dip For.  
Ox Lectr

### *French and German*

Clarke, Margaret A , M A Syd ,  
D. ès L Paris Lectr.  
D'Herbois, R C. Lectr.  
Graebner, R. M. Lectr.

### *Botany*

Reed, Eileen R L , M.Sc. Adel  
and Tor. Lectr

### *Chemistry*

Wilsmore, N. T. M., D.Sc. Melb ,  
F.I.C. Prof.  
Tattersall, G , M Sc. Manc., F I.C.  
Assoc Prof.

### *Geology*

Clarke, E de C., M.A. N.Z.  
Assoc. Prof.  
Hosking, L. F. V., B.A. Asst.  
Terrill, S E., B Sc. Demr.



*History and Economics*  
Shann, E. O. G., M.A. Melb. Prof.  
Alexander, F., B A Melb and Ox  
Asst

*Law*  
Beasley, F. R., B A. Ox., LL.B.  
Syd. Prof.  
McDonald, R. R., LL.B. Adel  
Lectr  
Leake, F. W. Lectr  
Dwyer, J P Lectr

*Mathematics and Physics*  
Ross, A. D., M A, D Sc Glas,  
F.R.S.E., F R A S, F Inst P.  
Prof  
Thompson, R D, M A N Z,  
M Sc, F R A S, A Inst. P.  
Lectr.  
Moir, Margt B, M A, D.Sc. Glas  
Lectr  
Shearer, J, B A, M Sc Melb  
Lectr  
Everson, D W. Demr

*Mining and Engineering*  
Fraenkel, P H, B E E Melb,  
M I E E, M I E A, M I V E  
Assoc Prof  
Bowden, A T, B Sc Edin,  
A.M.I.M.E., A M I E A  
Lectr

Blakey, O. F., M.E. Q'land.,  
A M.I.E.A. Lectr.  
Wiseman, W R. B., M Sc. Manc,  
A.M.Inst C E. Asst. Lectr.  
McLagan, W. Lectr.  
O'Brien, P V, M Inst C E,  
M I E A Lectr  
Hayman, W. G., B.Sc, B E. Lectr.  
Townsend, W. G., A M I.E.A.  
Asst.

*Music*  
Leckie, A J, Mus Bac Adel.,  
F R C.O. Lectr.

*Philosophy*  
Fox, A C, M A Syd  
Assoc Prof.  
Laidlaw, W. A, M A Dub. Lectr.  
Stoneman, Ethel T, M A. Lectr.

*Surveying*  
Nunn, G. M, L S. Lectr.

*Veterinary Science*  
Le Soeuf, E. A, B.V.Sc. Melb,  
F Z S Lectr.  
Weston, E A, B V Sc. Asst

**University Extension**  
10 Tutors for Correspondence  
Courses.

## AFFILIATED SCHOOLS

PERTH TECHNICAL SCHOOL, and SCHOOL OF MINES, KALGOORLIE.

## GENERAL INFORMATION

Established by Act of the State Legislature in 1911, the Univ. opened its first session in 1913. It has a large endowment of land granted by Govt., including a site of 165 acres for buildings, and receives an annual grant of £29,000. The administration is vested in a Senate of 18 persons, of whom 6 are nominated by Govt.

LABORATORIES. Agric., Biol., Chem., Geol., Engin., Phys, Psych., Vet. Sc.

FACULTIES Arts, Sc. (including Agric.), Engin. (including Surveying), Law.

DEGREE COURSES · 3 yrs.—B A., B.Sc ; 4 yrs.—B.A. (Hons ), LL.B. and B Sc. (Hons ) ; 5 yrs.—B E. (a sandwich system during last 3 yrs.) and B.Surv. (including 2 yrs.' field work). First year Med. course in Fac. of Sc.

EVENING CLASSES are held in the Arts Faculty only, but certain Science classes may be taken in the evenings at affiliated Colleges.

HIGHER DEGREES. M.A., LL.M., LL.D., M.Sc., M.E., D.Litt., D.Sc.

DIPLOMAS. Agric., Journalism.

PUBLIC EXAMINATIONS. School Certifs. (Junr. and Leaving), Art Certif., Music, and Elocution.

ADULT MATRICULATION. Persons who have attained the age of 25 yrs. may be admitted without examn as matriculated students if the Faculty is satisfied that they possess sufficient educational qualifications.

PUBLICATIONS. *Calendar* (Dec), 2s 6d, *Examination Papers*; *Public Examn. Manuals*; *Black Swan* (Students' Magazine).

## THE YEAR 1927-28

BENEFACTIONS. In addition to the annual Government Grant of £29,000, a special grant of £10,500 was made for scientific and engineering apparatus. Mr R J Gledden, a pioneer surveyor of Western Australia, died in November 1927, and left his entire estate to the University for the encouragement of Applied Science. The value of the estate is about £65,000.

BUILDINGS. The erection is in progress of St. George's College, a residential college for University students, at a cost of about £100,000. Work has been commenced in connexion with the main Hackett block of buildings for the University (to cost about £200,000) and the Physics building (cost about £32,000). The Government has decided to mark the centenary of the foundation of Western Australia in 1929 by erecting such buildings as will enable the whole University to be transferred to the permanent site.

NEW DEVELOPMENTS. Considerable additions have been made to the University Library through funds provided from the Hackett bequest. The Faculty of Law has been established, and the first classes met in 1928. This year a commencement has been made with a course leading to a diploma in Journalism. Botany has been made a separate department from Biology.

UNIVERSITY EXTENSION. An extensive series of lectures has been given in Perth and in many country towns, while weekly lectures have been broadcasted from Perth. Lectures have been given in Perth by Sir John Russell, Lord Clinton, and Professor R S. Conway. The Carnegie Foundation of New York has given 5000 dollars for the promotion of extension work by the University in adult education.

RETIREMENTS. Assoc. Prof G. Irving and Mrs Forsaith. Mr. A. A. Orton was appointed to a lectureship in the University of New Zealand.

STUDENTS. Undergraduates: Arts, 186; Law, 49; Pure Science, 67; Agriculture, 16; Medicine, 9; Engineering, 61; Journalism, 21. Post-graduate: Arts, 32, Science, 4; Special courses, 95. Total, 540.

DEGREES. B.A., 41; M.A., 1; B.Sc., 9; B.Sc. (Agric.), 7; M.Sc., 2, B.E., 9, M.E., 1; LL.M., 2.

# UNIVERSITY OF NEW ZEALAND

VISITOR—H E. THE GOVERNOR-GENERAL.

CHANCELLOR—J. MACMILLAN BROWN, M A., LL D. Glas.

VICE-CHANCELLOR—.....

CHAIRMAN, ACADEMIC BOARD—Prof. H W. SEGAR, M.A. Camb.,  
Auckland

REGISTRAR—E. T. NORRIS, M.A., Wellington.

AGENT IN ENGLAND—J W. JOYNT, M A. Dub , 88 Gower Street,  
London, W C 1.

## CONSTITUENT COLLEGES

UNIVERSITY OF OTAGO, DUNEDIN ; CANTERBURY COLLEGE, CHRISTCHURCH ,  
AUCKLAND UNIVERSITY COLLEGE ; VICTORIA UNIV. COLLEGE, WELLINGTON.

This University, an examining body, was founded in 1870. Its constitution, defined by the N Z Univ Act 1908 as amended in 1912, 1914, and 1915, vests the Government of the Univ. in a Council of 23 members, assisted, as regards schemes of study, etc., by an Academic Board representing the College Professorial Boards and a University Entrance Board, of which the Vice-Chancellor is the President, and on which there are representatives of the Academic Board, the Department of Education, and the Secondary Schools. The Council consists of 4 members nominated by the Governor, 8 appointed by the College Governing Bodies, 5 by General Court of Convocation, 3 by the Academic Board, 1 by the Council itself, and the Director of Education. The Chancellor and Vice-Chancellor are elected by the Council ; the former (or, in his absence, the latter) presides at meetings of the Council. There are no University buildings. the offices are at Wellington. An annual grant of £4000 is received from Govt.

**MAFICULATION** Candidates must pass in 5 subjects, including English, Maths, and one language. A candidate who does not pass in Latin or Greek must pass in Physics or Chemistry or Home Science, or Botany or Agriculture. Not more than two of these sciences can be taken ; in the syllabus prominence is given to their practical aspect. The examn. is held in Dec. Special provision is made for exemption of persons not under 25 years of age and students from other Univs.

**TERMS.** A student presenting himself for a Univ. examn. for which the keeping of terms is required must have passed the College examn. in the subjects he offers at the corresponding stage. The terms are : Autumn (March-May), Winter (June-Aug.), and Spring (Sept.-Oct. or Nov.). The subjects in which terms must be kept are : all those of the B.A., B.Sc., B.Sc. in H.Sc., M.B., Ch.B., B.D.S , B.Agr.Sc., B.For.Sc., B.Arc., and LL.B. degree courses ; of the 1st and 2nd Divisions of the B.Com. course ; of the Engineering Entrance examn.

Any student who is on the books of a constituent College, and who has passed its annual examn., is deemed to have kept the terms of the year if he has attended the prescribed courses, or, being resident more than 10 miles from

College or engaged in acquiring a profession or trade or earning a livelihood, has been thereby prevented from attending, or objects on grounds of religious scruples to such attendance.

DEGREE COURSES: 3 yrs.—B.A., B.Sc., B.Mus., B.Agr.Sc. (including practical work on farm), B.For Sc ; 4 yrs.—B.Sc. in Home Science, B Arch. (including 18 mos.' practical work), LL.B., B.E. (Mech., Elec., Civ., Mining, Metall., including from 9 to 18 mos. in shops, mines, or surveying), B.Com., B.Vet.Sc. ; 5 yrs.—B.D.S. , 6 yrs —M.B , Ch.B , B.Med.Sc.

HIGHER DEGREES. M.A., M.Sc., LL.M., M.Com , M.S. ; Litt.D., D.Sc , LL.D., M.D., D.D.S., D.Mus. For the Mastership examn. and thesis are required. The Doctorate may be taken by a Bachelor of 5 yrs.' (in Med 3 yrs.) standing who offers suitable original work and, if in Arts, Sc., or Law, has already obtained the Mastership or equivalent degree, or, if in Med. or Music, passes a prescribed examn.

DIPLOMAS D.P.H. (9 mos' course), Journalism, Education, Social Science, Banking, Insurance, Fine Arts. *Certificate of Proficiency in Dental Surgery, Shipping Officers' Certificate.*

PROFESSIONAL AND TECHNICAL SCHOOLS. *Law and Commerce* at all the constituent Colls. ; *Medical and Dental and Home Science* at Otago ; *Engineering* (Civil, Electrical, and Mech ) at Canterbury and Auckland ; *Mining and Metallurgical Engineering* at Otago , *Music* mainly at Auckland and Canterbury , *Agric.* at Auckland and Wellington and a recognized (but not affiliated) Coll at Lincoln , *Forestry* at Auckland and Canterbury , *Architecture* at Auckland.

"AD EUNDEM" RECOGNITION. Courses completed, or partially completed, at any British chartered or other approved Univ. are accepted *ad eundem*

SCHOLARSHIPS FOR GRADUATES In almost every subject of the B.A. or B.Sc. syllabus and in Law, Medicine, Dentistry, and Engineering—£70 ; Travelling Scholps. in Arts, Science, French, Law—£200 (2 yrs ) each, in Engin and Med —£150 each Four National Research Scholarships (£180) are offered annually to graduates of the N.Z. University or other approved persons.

Two first-class return passages between Australia and England are offered yearly by the Orient Co and P. & O. Co for grads of the Univ proceeding to Europe to continue their studies. The Union S.S. Co. supplements this by a similar concession between N.Z. and Australia One passage between N.Z. and England is offered by the N.Z. Shipping Co., one by the Shaw, Savill & Albion Co., and one by the Commonwealth and Dominion Line

ADULT EDUCATION. Classes are conducted under the control of the Council of each College through an Executive Committee on which the Council and the W.E.A. are represented. The Government granted £4520, of which £300 was allotted to each College for W.E.A. and extension classes.

PUBLICATIONS. *Calendar* (Oct.), 2s 6d , *Minutes of Prods. of Senate*, free ; *Examn. Papers*, 6d. or 1s. a set ; *Reports of Examrs.* (in England and N.Z.), free.

## THE YEAR 1927-28

Amendment of the University Act 1926 is contemplated during the session of 1928. The opening of the Massey Agricultural College in the North Island with an encouraging number of students enrolled has given effect to one of the most important recommendations of the Royal Commission. The Council

has sought power to confer honorary degrees (LL.D., D.Sc., Litt.D., Mus.D.) subject to the approval of the Academic Board. The new LL.B. degree and the new regulations of the Supreme Court Judges have distinctly raised the standard for entrance to the legal profession. The Council has moved in the matter of establishing degrees in Theology by taking evidence from representatives of the Churches. After 1928 the nine-unit B.A. degree will be in operation for all candidates; for students matriculated since 1926 the B.Sc. degree is one of eight units; each of these must include either two third-year courses or one third-year and one second-year course; the B.A. must include a foreign language unit, but Maori is not accepted as such.

**STUDENTS.** Full-time: total, 1274, including 65 graduates. Part-time: 2749, graduates, 207.

**DEGREES.** B.A., 228; M.A., 73; B.Sc., 54; M.Sc., 17; LL.B., 35; LL.M., 7; B.Com., 15; M.Com., 2; B.D.S., 13; B.Med.Sc., 1; M.D., 1; D.D.S., 1; B.E., 16; B.H.Sc., 4; B.Agr., 2; Ph.D., 3; M.H.Sc., 1.

#### THE ROYAL COMMISSION, 1925

The Royal Commission which has made investigations into the question of University education in New Zealand in its Report recommends drastic changes, including the establishment of a reformed Federal system with greater autonomy for constituent colleges. The Commission states that the New Zealand University offers unrivalled facilities for the taking of degrees, but that it is less successful in the provision of a University education. The Report condemns the dominant place given to examinations, and urges the encouragement of whole-time study. Other recommendations include:

- (1) The substitution of a School Leaving Certificate Examination for the Matriculation Examination.
- (2) A definite policy for the establishment of special schools and for preventing duplication; and in particular the establishment in the North Island of a strong University School of Agriculture.
- (3) Provision for the training of Secondary teachers within the University.
- (4) A higher standard of entrance for the legal profession.
- (5) Bursaries for selected students undertaking professional courses at distant University centres.
- (6) The encouragement of Research.
- (7) Promotion of corporate life among the students by means of a Students' Representative Council and of College Hostels.
- (8) Development of extra-mural work.
- (9) Establishment of Degrees in Theology.

The Minister of Education has approved the main recommendations.

The Royal Commission, which was appointed early in the year, had two members. Sir Harry Reichel, Principal of the University College of North Wales, and Mr. Frank Tate, Director of Education in the State of Victoria.

H. R. R.

# UNIVERSITY OF OTAGO, DUNEDIN

VISITOR—H.E. THE GOVERNOR-GENERAL.

CHANCELLOR—T. K. SIDEY, B A, LL B, M P

VICE-CHANCELLOR—W. J. MORRELL, M.A., Oxford

REGISTRAR—H. CHAPMAN, B A.

## PROFESSORS, LECTURERS, ETC.

<i>Accountancy</i>	
Reid, G W., B Com.	Lectr.
3 Tutors	
<i>Accountancy Law</i> [Lectr	
Paterson, J. M., M A., LL.B.	
<i>Anatomy</i>	
Gowland, W. P., M D, B.S. Lond ,	
F R C S Eng	Prof.
Durward, A, M B, Ch B	Lectr.
Flett, R L, M.B, Ch B.	
	Asst. Lectr.
<i>Architecture</i>	
Miller, E., A R I B A	Lectr.
Scoular, S. G, B E	
	Lectr (Descr Geom ).
Batham, G. S, B Sc.	
	Lectr. (Appl Elect ).
<i>Biology</i>	
Benham, W. B., M A Ox., D Sc	
Lond , F R S, F.N Z. Inst.	
	Prof
Fyfe, Marion L., B Sc	Asst.
<i>Botany</i>	
Holloway, J E., D.Sc, F.N Z	
Inst	Lectr
<i>Chemistry</i>	
Inghs, J. K. H., M A, B Sc.,	
D Sc Edin., F.I C.	Prof.
Carter, C. L., M.Sc., A.I C.	Lectr.
<i>Classics</i>	
Adams, T. D., M A	Prof.
Turnbull, Mary I., M A.	Asst.
<i>Dentistry</i>	
Dodds, R. B., D.D S.	Prof.
Burt, J. R, L D.S., R.C.S. Edin.	
	Assoc. Prof.
Parkinson, G. H., M.S. Chic.,	
L D S Eng	Assoc Prof.
Siedeberg, Emily H., B Sc., M D.,	
Ch B (Anæsthetics)	Lectr.
<i>Economics</i>	
Fisher, Allan G. B, Ph.D. Lond ,	
B.A.	Prof.
Boraman, W J, M A	Asst.
<i>Education</i> [Prof.	
Lawson, R., M.A., Litt D. Melb.	
<i>English Lang and Lit.</i>	
Ramsay, H., M A St And.	Prof.
Cameron, G M, M A.	Asst.
<i>Ethnology</i>	
Skinner, H D., Dip.Anth.Camb ,	
B.A.	Lectr.
<i>Geology and Mineralogy</i>	
Benson, W. N, B A Camb, D.Sc.	
Syd, F.G S	Prof.
Turner, F. J, M.Sc.	Asst.
<i>Hebrew</i>	
Cumming, J., M A. Edin., B.D.	
Lond., D.D. Melb.	Lectr.
<i>History</i> [Prof.	
Elder, J. R., M A., D.Litt Aberd.	
McClymont, W. G, M A.	Asst.
<i>History, Constitutional</i>	
Lang, J., M.A., LL.B.	Lectr.
<i>Home Science</i>	
Strong, Ann G., B.Sc. Columbia	
	Prof. (Domestic Arts).

Gloy, Olga H. M., Ph.D. Col.,  
B.Sc. in H.Sc. N.Z. Lectr.  
Cauty, Enid M., M.Sc. Col., B.Sc.  
in H.Sc. N.Z. Lectr.  
Pope, A., M.Sc. N.Z., M.A. Tor.  
Asst. Lectr.  
Bowbyes, Alice M., Dip.H.Sc.  
Asst.

*Law*

[Lectr.  
Stephens, A. C., LL.B. (Contracts)  
Neill, A. G (Crim. Law) Lectr  
Hay, W. G., LL.M. (Jurispr.) „  
Cook, H L, LL.B. (Property) „  
Anderson, P. S, B A, LL B. (Pro-  
perty L) Lectr  
Barrowclough, H. E, LL B.  
(Proc) Lectr.  
Callan, J. B, B A, LL.B. (Torts)  
Lectr.  
Fairmaid, R L. (Conveyancing)  
Lectr.  
White, C. J. L (Evidence) Lectr  
Haggitt, A N., LL B (Rom Law)  
Lectr.

*Mathematics, Pure and Applied*

Bell, R J. T, M A, D.Sc Glas  
Prof  
Orton, A A, B A, M.Sc Lectr

*Metallurgy and Assaying*

Black, H, A.O.S.M. Lectr.

*Mining*

Park, J., M.A.I.M.E., M.I.M.M.,  
F.G.S., F.N Z. Inst. Prof

*Modern Languages*

Thompson, G. E, Litt D. Prof.  
Barron, Vida M, M A. Asst.

*Music*

[Lectr.  
Galway, V. E., Mus D. Melb.

*Philosophy, Ment. and Moral*

Dunlop, F. W, Ph D. Jena, M A  
Prof.  
Bales, J M, M A. Asst.

*Physics*

Jack, R., M.A., D.Sc. Glas., Ph.D.  
Gött. Prof.

Focken, C. M, B.M.E., B.Sc.  
Melb, Ph.D Ox.

Beverly-Mackenzie Lectr.

Blackie, Agnes R., M.Sc. Asst.

*Physiology*

Malcolm, J., M D. Edin. Prof.  
Fogg, W. S., M B, Ch B Asst.

**Medicine** (for subjects of the first  
2 yrs.—Anat., etc., v. *supra*)

*Anæsthetics*

[Tutor  
Whyte, M. K. B, M.B, Ch.B.

*Bacteriology and Pub Health*

Hercus, C. E., D.S.O., O.B.E.,  
M.D., B.D.S., D.P.H. Prof.  
..... Lectr.

*Clin Med and Clin Surg.*

The Hon. Staff of the Dunedin  
Hospl. Lectrs.

*Clin Med. and Therap*

Fitchett, F W. B, M D., C.M.  
Edin Prof.  
Macdonald, W. M., C B.E., B Sc.,  
M D.

Moore, S A., B A, M.D. Lectr.  
Murray, C. S., M B, Ch.B.  
Asst. Lectr.

*Diseases of Children*

Williams, E. H., M.B., Ch B.,  
M.R.C.S. Eng. Lectr.

*Ear, Nose, and Throat*

Hall, A. J., M B., Ch.B, M.R.C.S.  
Eng., L.R.C.P. Lond. Lectr.

*Gynæcology*

North, C., M.B, Ch.B., M.R.C.S.,  
L.R.C.P. Lond.  
Tutor, Asst. Lectr. on  
Cln G.

*Medicine*

Carmalt-Jones, D. W., M.A., D.M.  
Ox., F.R.C.P. Lond. Prof  
Colquhoun, M D. Lond., F.R.C.P.,  
M.R.C.S. Emeritus Prof.  
Taylor, C. A., M.B., Ch.B. N.Z.,  
M.R.C.P. Lond. Tutor.

*Mental Diseases*  
 Gribben, St. L. H., M.D. Lectr. D'Ath, E. F., M.B., Ch.B. Asst.  
 Thomson, E. F., M.B., Ch.B. Asst.

*Midwifery and Gynæc.*  
 Riley, F. R., F.R.C.S. Eng, Bell, F. Gordon, M.B. Edin.,  
 L.R.C.P. Lond. Lectr F.R.C.S. Prof.  
 Ritchie, R. I., M.B., Ch.B., Barnett, L. E., CMG, M.B.,  
 M.R.C.S. Eng, L.R.C.P. CM Edin, F.R.C.S.  
 Lond. Tutor Emeritus Prof.

*Ophthalmology*  
 Ferguson, Sir Henry L., CMG, Newlands, W., M.B., Ch.B. Edin.,  
 MA, M.D. Dub, F.R.C.S.I., F.R.C.S. Edin., M.A., B.Sc.  
 L.K.Q.C.P.I. Prof. Fergus, T., M.B., Ch.B. N.Z.,  
 F.R.C.S.E.

Asst. Lectrs. in Clin. O.:  
 Bathgate, Winifrede I., M.B., Batchelor, F. S., F.R.C.S.  
 Ch.B. Tutors  
 Carswell, W. E., M.B., Ch.B., White, J. R., M.B., F.R.C.S.  
 F.R.C.S. Eng  
 Ross, K., M.A., M.B., CM, D.P.H. Jenkins, J. A., M.B., Ch.M.,  
 Cottrell, A. J., M.A., M.Sc., M.B., F.R.C.S. Eng  
 Ch.B. Fulton, R. A. H., M.B., Ch.B.,  
 F.R.C.S. Eng

*Pathology*  
 Drennan, A. M., M.B., Ch.B., 11 Lecturers to W.E.A. Classes.  
 F.R.C.P. Edin Prof Secy.—G McCracken

## GENERAL INFORMATION

Founded by Ordinance of the Provincial Council in 1869 with power to grant degrees in Art, Medicine, and Law, the Univ. was opened in 1871. The Law School originated in 1873, the Medical in 1874, the School of Mines in 1878, the Dental School in 1907, the Accountancy Lectures and the Home Science Dept. in 1911. Between 1869 and 1877 the Univ. received grants of land exceeding 220,000 acres. It is entirely unconnected with any religious denomination except that the right of nomination to certain Chairs endowed by the Presbyterian Church rests with the Board of Church Property, subject to the approval of the Synod. It receives annual Government grants of approximately £10,000.

By an agreement effected in 1874 the Univ. agreed to hold in abeyance its power of granting degrees, and to become affiliated to the Univ. of N.Z.

**CLASS FEES.** In separate subjects—in Arts generally, £5 : 5s. for complete course; Science, £8 : 8s.; Law from £1 : 15s. to £5 : 5s.; Commerce, £1 : 10s. to £5; Medicine, all subjects aggregate (6 years), about £218, exclusive of Univ. fees, £45 : 3s.; Dentistry (4 years), £149, exclusive of Univ. fees, £24; Mining (4 years), £134; Home Science (4 years), £125 : 4s.

**LIBRARY**, 21,000 vols.; also the Hocken collection of pamphlets and MSS. bearing on the History of N.Z. **MUSEUMS**: Biol., Ethnog., Geol., Anat., Path. **LABORATORIES**: Phys., Chem., Physiol., Bact., Path.

**FACULTIES.** Arts and Science, Medicine, Dentistry, Mining, Law, Commerce, and Home Science.



**COURSES** for degrees in all the Faculties, D.P.H.; Certif. in Dent. Surg.; Associateship of Otago School of Mines (A.O.S.M.), 4 yrs.; Diploma of Mining, Metallurgy, Geology, or Land and Mine Surveyor, 2 yrs.; Associateship in Home Science, 4 or 3 yrs.

**RESEARCH SCHOLARSHIPS, ETC.** Edmond Industrial (Chemical) Research, £210, tenable 2 yrs.; Smeaton Research in Experimental Science, £60 for first year and £210 for second. The first is open to any person domiciled in N.Z., the second to graduates of Otago. Ross (Knox College), £150, 2 yrs.; Sir R. Stout (Economics), £50; and Anna P. Stout (Economics and History and Home Science—women); all open to graduates of Otago. **OTHER RESEARCH FUNDS:** Roberts, Deans, and Barnett endowments, £2000 each for research in med. and surg.

**HOSTELS.** Presbyterian for men and women, Anglican for men; Home Science Students'. Cost of board and lodging, 30s. to £2 a week.

**UNIV. EXTENSION.** Since 1916 classes in connexion with the W.E.A. in Dunedin and Invercargill have met with very great success.

## THE YEAR 1927-28

**BENEFACTIONS** Dunedin Savings Bank, £2000, Dunedin City Council, £1250; Bank of N.Z., £500 (all for extension of Museum); the Crow family, £1000 for Medical and Dental Research, Sir Louis Burnett, £1000 for playing fields.

**STUDENTS.** Full-time 1190, including 79 graduates.

**DEGREES OBTAINED** B.A., 50, M.A., 14; B.Sc., 11; M.Sc., 4; LL.B., 6; LL.M., 1, M.Com., 1, M.B., Ch.B., 30, B.D.S., 14, B.H.Sc., 4; M.H.Sc., 1; B.Med.Sc., 1, M.D., 2; B.E., 1, Ph.D., 1; D.Sc., 1, D.D.S., 1

# CANTERBURY COLLEGE, CHRISTCHURCH

VISITOR—THE MINISTER OF EDUCATION.

CHAIRMAN OF BOARD OF GOVERNORS—H. D. ACLAND, B.A.

RECTOR—Prof. JAMES HIGHT, Litt.D

REGISTRAR—C. C. KEMP

## PROFESSORS, LECTURERS, ETC.

### *Accounting, etc.*

Morrison, J., F.I.A.N.Z. Lectr

Smith, W. A., A.I.A.N.Z

Asst. Lectr

Powell, P. H., M.Sc. Manc M Eng,  
Liv., M.I.E.E.

Prof. (Elec. E.) (Dean  
Fac Eng.).

### *Biology*

Chilton, C. M.B., C.M. Edin, Hon.

LL.D. Aberd., M.A., D.Sc.,

F.L.S. (on leave) Prof

Foweraker, C. E., M.A.

Acting Prof.

Herrnott, Eliz M., M.A. Asst Lectr.

Murray, Flora B., M.A. „ „

### *Chemistry*

Denham, H. G., M.A., M.Sc., D.Sc.

Liverpool, Ph.D. Heidelberg

(Dean Fac. Sci.) Prof

Packer, J., M.Sc. Asst. Lectr

Kidson, Elsa B., M.Sc. Demr

Hayman, I., B.E. Demr

McLennan, R. A. Asst.

Robinson, W. F., F.R.G.S. (Sur-  
veying, etc.) Lectr.

Steele, S., B.Sc. Eng.

Prof. (Mech. E.).

Calvert, G. G., A.M.I.C.E.

Lectr. (Civ. E.).

Pollard, T. R. Lectr. (El. E.).

Grundy, R. H., Ph.D., B.Eng.

Liverpool Lectr.

Kain, A. C. Demr

### *English*

Wall, A., M.A. Lond., B.A. Camb.

(On leave) Prof

Cane, T. W., M.A. Act Prof.

Carr, D. A., M.A. Asst. (Temp.)

### *Forestry and Botany*

Foweraker, C. E., M.A. Lectr.

Hutchinson, F. E., B.Sc. F. Montana

Lectr. in Forest Utilization

### *French and German*

Blunt, T. G. R., M.A. Ox. Prof.

White, J. F. D., B.A., B.Sc. N.Z.

(French) Asst. Lectr.

### *Geology and Geography* [Prof.

Speight, R., M.A., M.Sc., F.G.S.

Sylvester, S. H. J., M.Sc.

Asst. Lectr.

### *Classics*

Pocock, L. G., M.A. Prof

Broadhead, H. D., Litt D. N.Z.,

B.A. Camb. and N.Z.

Asst. Lectr.

### *Economics*

Tocker, A. H., M.A. (Dean Fac.

Com.) Prof.

Lawn, G. Asst. Lectr.

### *Education*

Shelley, J., M.A. Camb. (Dean

Fac. Soc. Sc.) Prof

Purchase, J. E., M.A. Lectr.

Beeby, C. E., M.A., Ph.D.

Asst. Lectr.

### *Engineering*

Campbell, R. A., B.Sc. (Eng.),

A.M.I.C.E. Prof. (Civ. E.).

Morrison, A. F. Lectr. & Demr.

Bamford, P. G., B.E.

Research Asst.

### *History*

Hight, J., M.A., Litt D. Prof.

Candy, Alice, M.A. Asst. Lectr.

### *Journalism* [Asst. Lectr.

Henderson, A. G., B.A.

Asst. Lectr.

<i>Law</i>		
.....	Lectr.	Darwin, L. J., M.A. Adel.
Cuthbert, R. A., B.A., LL.B.	<i>Music</i>	Asst. Lectr.
(Indust. and Comml. L.)	Bradshaw, J. C., Mus D. Manc,	
Asst. Lectr.	F R C O., L.R.A.M., A.R.C.M.	
Hanna, H. H., LL.B. Asst. Lectr.	(Dean Fac Music)	Lectr.
Taylor, A. S., B.A., LL.M.	Black, Jane L., Mus B	
Lectr (Dean Fac Law)	Asst Lectr	
Gresson, K. M.	<i>Philosophy, Mental and Moral</i>	
Asst. Lectr. (Property, etc.).	Salmond, C. F., M.A.	Prof
Archer, K G, LL B. Asst. Lectr	Field, H E, M A	Asst Lectr
Brassington, A C, LL.B.	<i>Physics</i>	
Asst. Lectr	Farr, C C., D.Sc Adel.	Prof.
Brown, A. W, LL B. Asst. Lectr.	Macleod, D B, M.A., D.Sc.	
Gee, L W, LL.M. Asst Lectr	Lectr.	
<i>Mathematics and Nat. Philos</i>	<b>Adult Education</b>	
Weatherburn, C. E., M A Camb.	Director Prof. J Shelley, M A.	
and Melb, D Sc Syd (Dean	Camb	
Fac Arts) Prof.	Staff-Tutor Johnson, J, M A.	

## GENERAL INFORMATION

Created by Provincial Ordinance, 1873, and affiliated to the Univ. of N.Z., 1874 Present value of Govt. endowments—£559,005, including £265,057 for the High Schools, School of Art, Museum, and Public Library controlled by the Board of Govrs Annual Govt. subsidies and grants (1926), £46,983, including £6524 for *Engineering* (the National School of Engin in N.Z.) and £5008 for College The *Rector* is the academic head of the College and the permanent Chairman of the Professorial Board LABORATORIES Biol., Chem., Engin, Phys., Educational Psychology, Forestry.

DEGREE COURSES in Arts, Science, Mus., Com., and Engin., and Certif. or Diploma courses in Engin. (3 yrs.), Com. (2 yrs.), Journalism, Education, Forestry, and Social Science. Evening courses in Mech. and Elec. Engin. and Com.

CLASS FEES. Per session in each subject in Arts or Science, 5 gs.; Laboratory Research, 8 gs., Law and Commerce subjects, 1½ to 3 gs.

RESIDENCE. Hostels for men (80) and women (35) students.

SCHOLARSHIPS include one of £50 for research in Science, open to graduates, renewable up to 3 yrs.; one of £150 p.a. for 2 yrs. plus £38 for travelling, tenable at Royal Holloway Coll., England; one of £150 in Engineering, open to B.E., tenable outside N Z; one (Hartley) for women graduates, offered every third year, £300 p.a. for 3 yrs. tenable ordinarily at Oxford, Cambridge, or London. There is a Students' Loan Fund of £700.

PUBLICATIONS. *Calendar* in March. Annual Statement of the Chairman in June. *College Review*, 2 issues a year, subscription 4s. *Annual Report (Trans.) of Coll. Engineering Soc.*, 2s. 6d.

## THE YEAR 1927

STUDENTS. Full-time: total, 386, including 57 graduates. Part-time: 862, including 23 graduates. Total, 1248.

DEGREES OBTAINED. B.A., 45; M.A., 29; B.Sc., 12; M.Sc., 6; LL.B., 6; B.Com., 2; B.E., 11; B.Agr., 2; Diploma in Education, 4; Diploma in Social Science, 3; Diploma in Journalism, 2.

# AUCKLAND UNIVERSITY COLLEGE

VISITOR—THE MINISTER OF EDUCATION.

PRESIDENT OF COUNCIL—Hon. G. FOWLDS, C.B.E.

REGISTRAR—M R. O'SHEA, B Com.

LIBRARIAN—ALICE E MINCHIN, B.A.

## PROFESSORS, LECTURERS, ETC.

### *Accounting, etc*

Seaman, A M, F I A N.Z. Lectr  
Shove, H. W., B.Com Asst Lectr

### *Architecture*

Knight, C R, B Arch, M.A  
Liv, A.R I.B A Prof  
Crookes, S I Lectr  
Sladdin, T A, F R I B A Lectr  
Proctor, R Lectr (Art).

### *Biology*

Sperrin-Johnson, J. C., M A.,  
M.Sc., M B, B Ch. N.U I.,  
Litt.D, F.Z S. Prof.  
Lancaster, T L, M Sc Asst Lectr  
McGregor, W R. Lectr -Demr

### *Chemistry*

Worley, F. P, D Sc. Lond, M.A,  
M Sc, D I C, F.C S Prof  
Bowell, A H, F C S Lectr.-Demr  
Short, W F, M Sc Manc, A I.C.,  
F.C.S. Lectr -Demr.

### *Classics*

[Prof.  
Paterson, A. C, M.A. Edin. & Ox.  
Blaklock, E M, M A.  
Asst. Lectr.

### *Dental Mechanics*

Craddock, F. M. Lectr.

### *Economics*

Belshaw, H., M A., Ph D. Camb.  
Rodwell, H. R, M A Asst Lectr.

### *Education*

Fitt, A. B, Ph.D. Leip, M.A.  
Prof.  
Cousins, H. G., M.A. Lectr.

### *Engineering*

Lamb, S E., B Sc. Lond., A R C.S.  
Eng., A M I M E. (Applied  
Mechanics, etc )  
Director, Prof.  
Dawson, C Lectr. (Elec E., etc.).  
Harkness, D. E. Lectr (Civil).  
McLaren, E. J. R.  
Demr & Asst. Lectr.  
i Workshop Instructor.

### *English*

Egerton, C. W., M A Dub. Prof  
Ardern, P. S., B A. Ox, M A.  
Asst Lectr

### *Forestry*

Corbin, H H, B Sc. Lond, Edin.,  
and Adel. Prof.  
McGregor, W. R. Asst. Lectr.

### *Geology*

[Prof.  
Bartrum, J. A., M Sc, A R S M

### *Hebrew*

Paterson, A C, M A. Ox Prof.

### *History*

Grossmann, J. P., M A. Prof

### *Journalism*

Mulgan, A. E. Lectr.

### *Law*

Algie, R. M, LL M Prof.  
Fotheringham, A., B.A., LL.B.  
Camb. Asst. Lectr.  
Munro, L. K., LL.M. Asst Lectr.  
Hogben, J. M., LL.B. Asst. Lectr.  
Goodall, S. I., LL.M. Asst. Lectr.

### *Mathematics*

Segar, H. W., M.A. Camb. Prof.  
Bullen, K. E., M A Asst. Lectr.

<i>Mental and Moral Philosophy</i>	.....	Lectr. & Demr.
Anderson, W., M.A. Glas. Prof.	Macky, W. A., M.Sc.	

<i>Modern Languages</i>		Lectr. & Demr
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Walker, M., M.A., B Com. Prof.	
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Miller, Dora L., M.A., Cert. Assn.	
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Phon. Internat. (Paris)	
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### University Extension

Asst. Lectr.	
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Of 16 Tutors assisting the Director appointed by the W.E.A. (Richmond, N M, B A), 4 are members of the College staff. Asst. Tutor Organizer: Stephens, F. B., B.Com.

### Music

Thomas, W. E., Mus.D Ox. Prof.	
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### Physics

Burbidge, P. W., B.A. Camb.,	
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M.Sc. Prof	
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## GENERAL INFORMATION

Established by Act of the N.Z. Legislature in 1882, the College was affiliated to the Univ. of N.Z. in 1883. It received in 1885 an endowment of 30,000 acres of land, of which one-third was sold in 1915 for £10,246. It receives an annual grant of £11,500.

Of the 14 members of the College Council 3 are appointed by the Governor, 2 by the Prof Board, 1 by local bodies, 4 are elected by the graduates, and 3 by the Auckland members of the General Assembly. Legislation was passed in 1923 permitting of the appointment of a Principal to the College.

COURSES are provided for the degrees of the Univ. in Arts, Science (including B Sc in Archt. and in Forestry), Law, Music, Commerce, and for the Associateship of the College in Commerce (2 yrs.' course) and in Engineering (3 yrs.').

CLASS FEES. Arts subjects, usually £3 to £5. Science, £5 to £8. Law, £1 : 10s. to £3 per subject.

PUBLICATION. *Calendar* (Feb.).

## THE YEAR 1927-28

STUDENTS. Full-time: total, 252, including 14 graduates. Part-time: total, 987, including 65 graduates. 176 were unmatriculated.

DEGREES OBTAINED. D.Phil., 1; B.A., 70; M.A., 13; B.Sc., 13; M.Sc., 4; LL.B., 5; LL.M., 3; B.Com., 8; Dip. Education, 8; Dip. Social Sc., 2; Dip. Journalism, 4.

# VICTORIA UNIVERSITY COLLEGE, WELLINGTON

VISITOR—THE MINISTER OF EDUCATION.

CHAIRMAN OF COUNCIL—P LEVI, M.A.

REGISTRAR—G. G. S. ROBISON, M A

LIBRARIAN—H G MILLAR, M A.

## PROFESSORS, LECTURERS, ETC.

<i>Agriculture</i>		<i>Law, Roman, etc.</i>	[Prof.
Peren, G. S., B.S.A. Tor.	Prof.	Adamson, J., M A., LL B. Edin	
		Hain, C. H., LL B.	Asst.
<i>Biology</i>		<i>Law, English and N Z.</i>	[Prof
Kirk, H. B., M A	Prof	Garrow, J. M E., B A., LL B	
Pigott, Ellen, M A.	Asst. & Demr	Hemery, L. C., LL B	Lectr.
Maskell, F. G., B.Sc.	Asst. & Demr.	Cousins, A. M., LL.M.	Asst.
		McKay, Georgina	Asst.
<i>Chemistry</i>		<i>Mathematics</i>	
Robertson, P W., M A	Ox .	Sommerville, D. M Y., M A., D.Sc	
Ph D Leip., M Sc	Prof	St And	Prof.
Monro, A D, M Sc		Miles, F F, M.A.	Asst. & Instr.
Chamberlain, E. E	Asst & Demr	<i>Modern Languages</i>	
<i>Classics</i>	[Prof.	Boyd-Wilson, E. J., B.A. Camb.,	
Brown, J. R., M A. Ox. & St. And.		M A., B.Sc.	Prof.
Alexander, W, M.A, LL B.	Asst.	Balham, W F. C, B A.	
<i>Economics</i>	[Prof.	<i>Philosophy, Mental and Moral</i>	
Murphy, B F., M.A, B Com.,		Hunter, T. A, M A., M Sc	Prof.
LL B (E. Hist. & Geog )		Sutherland, I L. G, M.A. N.Z.,	
Heine, Hilda G., M A, Ph D	Asst	M.A., Ph D. Ox.	Asst. & Instr.
<i>Education</i>		<i>Physics</i>	[Prof.
Gould, W. H, M A	Asst	Florance, D. C. H., M.A., M.Sc.	
Lomas, E. K., M.A., M.Sc.	Asst.	Marwick, Thora, M.Sc.	Asst. & Demr.
<i>English Language &amp; Lit.</i>	[Prof.	<i>University Extension</i>	
Mackenzie, H, M.A. St. And.		Of the Tutors who conduct one-	
Tomlinson, H B., M.A.	Asst.	year classes under joint com-	
<i>Geology</i>		mittee of W.E.A. and College,	
Cotton, C. A., D.Sc.	Prof.	3 are members of College staff.	
<i>History</i>		Director, T. A. Hunter, M.A.,	
Wilson, F. P., M.A.	Prof.	M.Sc.	
Maskell, Winfred, M.A.	Asst.		

## GENERAL INFORMATION

Established by Act of the N.Z. Legislature, 1897, and affiliated to the Univ. of N.Z., 1899. Endowed by Govt. with 4000 acres. College buildings, towards which Govt. gave £31,000, were opened in 1906; additional wings for Library, etc., and for Physics erected 1921-22 at a cost of £50,000. Annual grants about £14,000.

Full DEGREE COURSES are provided in Arts, Science, Law, and Commerce, and the earlier stages in other Faculties.

CLASS FEES range between 3 and 5 guineas per annum for each subject.

RESEARCH SCHOLARSHIPS. J. Joseph, £60 for original work; Mrs. S. A. Rhodes' Fellowship (£400) or Scholarship (£125-£250) for women students of Home Science, tenable for 2 years. Farmers' Union Scholarships (£100) for research bearing on Agriculture

HOSTEL for 41 women students conducted (on definitely Christian lines) by W.S. Hostel Society.

PUBLICATIONS. *Calendar* (Feb.); Students' Magazine published towards end of each term.

## THE YEAR 1927

STUDENTS. Full-time, 211, Part-time, 598; graduates, 67.

DEGREES OBTAINED. B A, 68, M A, 23; B Sc, 20, M Sc, 6; LL B., 22; LL M, 2; B.Com., 5; Diploma in Education, 8, Diploma in Social Science, 2.

## UNIVERSITIES OF THE UNION OF SOUTH AFRICA

UNIVERSITY OF CAPE TOWN (formerly South African College, Cape Town).

UNIVERSITY OF SOUTH AFRICA, PRETORIA (formerly the Univ. of the Cape of Good Hope), with 6 CONSTITUENT COLLEGES.

UNIVERSITY OF STELLENBOSCH (formerly Victoria College, Stellenbosch).

UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG (formerly S. African School of Mines and Technology, and, later, University College, Johannesburg).

**HISTORICAL SUMMARY** (for which the Bureau is indebted to Professor Ritchie of Cape Town) The history of higher education in S. Africa covers but a comparatively short period of time. It may be said to have had its beginnings when, in 1829, the S. African College (now incorporated in the Univ. of Cape Town) was founded, as a proprietary institution, by a number of progressive citizens of Cape Town, assisted by subscribers from various parts of the country. This institution was, at its inception and for a long time afterwards, not much more than a higher-class school, but it had within it the possibilities of growth and started with very high aims. It had a very chequered history for some time, and was on more than one occasion in danger of extinction, but it gradually acquired a stronger position on ceasing to be a proprietary institution and receiving support from the public funds. For 20 years it remained the only educational establishment in S. Africa which aspired to anything beyond the range of elementary education, but in 1849 a rival College (the Diocesan) was started under the ægis of the Episcopalian Church at Rondebosch, a suburb of Cape Town. A few years later, in 1855, a somewhat similar College, St. Andrew's, was founded in Grahamstown, in the eastern part of the Cape Colony. Under the Governorship of Sir George Grey there was founded, in 1855, the Grey College at Bloemfontein in the Orange Free State, the first attempt at higher education beyond the borders of the then Cape Colony. None of these Colleges was well equipped, and most of the work done by them was school work rather than Univ. work, but they gradually acquired a growing influence and formed centres at which development was only a question of time. A very strong impetus in the direction of higher education was given in 1858 by the establishment of a Board of Examiners in Literature and Science. This Board had in view in the first instance the testing by means of examination of the competency of candidates for the Civil Service and public offices, but



it soon extended its scope and started examinations on more distinctively Univ. lines, corresponding roughly to Matricn., B.A., and M.A. The competition between the existing Colleges caused by these exams. had undoubtedly a strong influence on the growth of these Colleges and the greater attention paid to subjects beyond the mere school range. This Board continued to exist until 1873, when a successful attempt was made to institute a Univ. for S. Africa. The Univ. of the Cape of Good Hope, which was then founded, continued to exist until the beginning of 1918, when it was transformed into the Univ. of S. Africa, with its administrative seat at Pretoria. This Univ. was modelled on the lines of the London Univ., as then existing, as a purely examining body. It was governed by a Council, half of whose members were nominated by the Government, half elected by the members of Convocation. It had no constitutional connexion with the Colleges which prepared students for its exams., but the members of the Council who were elected by Convocation tended gradually to be almost entirely members of the teaching staffs of the various Colleges. In this indirect fashion the Colleges had a considerable influence on the development of the Univ. and the extension of the range and scope of its exams. Almost at the same time as the founding of the Univ. of the Cape of Good Hope there was passed by the Cape Parliament a Higher Education Act, which gave definite salary grants to the professors at recognized Colleges. This Act, together with the new impulse given to higher education by the new Univ., had a very marked influence on the development of the Colleges, which now began to increase in staff and numbers of students. The new College of Stellenbosch (afterwards the Victoria College and now the Univ. of Stellenbosch) was founded in 1874, and grew very rapidly, until it was a formidable rival of the older College at Cape Town. Other Colleges were founded also at Somerset East (Gill College) and Port Elizabeth (Grey Institute), but these had only a very short term of life. At a considerably later period, as S. Africa grew in population and wealth, other Colleges sprang into existence. A College for women (the Huguenot College) was founded at Wellington in 1898. In 1904 St. Andrew's College at Grahamstown separated its College department from its school, and the former became incorporated as the Rhodes College. In the same year a School of Mines which had been founded in 1896 at Kimberley was transferred to Johannesburg and afterwards developed into a College for higher education generally, which is now The University of the Witwatersrand. In 1908 a Univ. College was founded at Pretoria, and in 1909 a similar College was instituted at Pietermaritzburg, Natal.

In 1904 there began a movement for the institution of a teaching, in place of the examining, Univ., and the controversy regarding the rival claims of a federal and a single-college Univ. continued for a number of years. An Inter-Colonial Conference on Univ. Education in 1908 reported in favour of a federal scheme, but nothing came of its decision. A new factor in favour of a teaching Univ. was introduced by the munificent gifts for this purpose of Mr. Alfred Beit, his brother, Mr. (now Sir) Otto Beit, and Sir Julius Wernher. In consequence of these gifts, various attempts were made by the Government to solve

the knotty question of reconciling claims of the existing Colleges with the institution of one or more teaching Univs. A parliamentary committee deliberated on the subject in 1913, and a Commission was appointed in the same year and, after taking evidence, issued its report in 1914. This Commission proposed two Univs., one consisting of a federation of the S. African College and the Victoria College, the other of a federation of the remaining Colleges (Rhodes College being allowed the choice of joining whichever federation it pleased), but the proposal led to no practical result, chiefly owing to the objection on the part of the two oldest and strongest colleges, at Cape Town and Stellenbosch, to the loss of their independence. The problem was at length solved in 1916 by giving charters to both the S. African College and the Victoria College, and by the reincorporation of the old Univ. of the Cape of Good Hope as a federal Univ. embracing all the other Colleges under the name of the Univ. of S. Africa.

The three Acts passed by the Union of S. Africa in 1916 were to the following effect.

I. The Univ. of the Cape of Good Hope became the Univ. of South Africa, with its administrative seat at Pretoria.

II. The South African College became the Univ. of Cape Town, with which is incorporated the S. African College. Its seat is to be upon the Groote Schuur estate on the eastern slopes of Table Mountain.

III. The Victoria College, Stellenbosch, became the Univ. of Stellenbosch, with its seat in the division of Stellenbosch in the Province of the Cape of Good Hope.

The Faculties of the Univ. of Stellenbosch are specified as—Arts, Science, Education, Agric., Law, Theology, Commerce; of the Univ. of Cape Town as—Arts, Science, Medicine, Law, Engineering, Education; of the Univ. of South Africa the Faculties are not defined, but permission is given to each of the constituent Colleges to establish such faculties or depts. as it may deem fit, provided that it shall not, without the consent of the Govr-General, apply towards the maintenance of a faculty or dept. not established at the commencement of this Act any money granted to the College from public funds. The three University Acts referred to above also made provision for the establishment of a Joint Matriculation Board and a Joint Committee for Professional Examinations, the functions of which are indicated below.

In 1921 Parliament passed a further Act, which has the effect of incorporating, with effect from March 1, 1922, as "The University of the Witwatersrand, Johannesburg," the University College, Johannesburg (formerly the S. African School of Mines and Technology, and one of the constituent colleges of the University of S. Africa). Its Faculties are defined as Arts, Science, Medicine, Law, Engineering, Commerce.

Each of the four Univs. is governed by Council, Senate, and Convocation. The Senate of the Univ. of South Africa consists of the Professors and Lecturers of the constituent Colleges who are heads of such departments as are recognized by the University Council; the Senates of the Univs. of Stellenbosch, the Witwatersrand, and Cape Town consist in each case of the Principal, the Vice-Chancellor, two

additional members of the Council appointed for a prescribed period, and the Professors.

CONFERENCE. The Vice-Chancellors of the Univs. acting as a Joint Committee (known as *The Vice-Chancellors' Committee*) have, in the exercise of powers conferred by the above-mentioned Acts, made joint statutes and regulations relating to the Joint Matricn. Board, the Joint Committee for Professional Examns, the administration of the Joint Scholarship Funds of the four Univs, the admission of registered students of any one of the Univs. to any of the others, and a minimum period of attendance and minimum fees for the Degree of Bachelor. They have power to formulate regulations dealing with any other matters of common interest. The address of the Secretary (who is also Registrar, Univ. of Cape Town) is P.O. Box 594, Cape Town.

Representatives of the Univs and Univ. Colleges in South Africa met for the first time in conference in Cape Town in Dec. 1925 to discuss matters of common interest and to promote co-operation and mutual consultation. Similar meetings have since been held from time to time.

The JOINT MATRICULATION BOARD consists of representatives of the four Univs, the Provincial and Union Departments of Education and the Secondary Schools (public and private) of the four Provinces. Its function is to control and conduct the Matricn Examn of the four Univs, and to deal with all applications for exemption therefrom. There are two alternative sets of regulations—the interim and the new. Under the interim rules a candidate must take (1) English or Dutch, (2) Latin or Greek or French or German, (3) Maths, (4) Greek (if not already taken) or Hist or Geog, (5) Physics or Chem or Phys Sci or Bot or Zool or Geol or Biol. or Hygiene or Agric Sci, (6) Engl or Dutch or French or Ger or Latin or Greek or Hist. or Portuguese or Hebrew or Native lang. The new grouping of subjects is: (1) English, Dutch, (2) Maths; (3) Latin, Greek, French, German; (4) Physics and Chem, Physics, Chem, Biol, Bot, Zool, Geol, Hygiene, Agric. Sci A, (5) Hist, Geog, English, Dutch, Hebrew, addl subject from 3 or 4, (6) Agric Sci B, Practical Maths, Mechanics, Bookkeeping and Comml Arith, Shorthand and Typewriting, Drawing, Art, Geom. Drawing, Domestic Sc, Music, addl lang, addl subject from 5. Under the new regns, if 6 subjects are taken, 1 must be selected from each group; if only 5 subjects are taken, 3 must be on the higher grade, 1 of which must be the subject from group (1), 1 a subject from group (2) or (3), and 1 from any other except (6). The 5 subjects must be selected from the groups 1 to 5 (inclusive) in such a way that not more than one of these groups is omitted. School-leaving certificates are also issued by the Board under both sets of regns, the syllabuses and examn. papers being the same as for the matricn. examn with a wider choice of subjects.

*Examinations exempting (i) wholly, or (ii.) subject for subject, from the matriculation examination of the South African Univs.:* (i.) Final degree examns. of univs. recognized by the Joint Board, St. Andrews' L.L.A., Teachers' 1st Class Certificate (S. Africa), Technische Hoogeschool of

Revision in progress.

Delft Diploma examn., including Latin, French, or German, and, subject to certain conditions, Transvaal Secondary School Certificate (in or after 1921), Cape Province Senior Certificate (in or after 1923).

(11.) Provided that candidates have passed, with at least 4 subjects chosen in accordance with the regulations for a matricn. certificate of the Board, an entrance examn. of any univ. recognized by the Board, senior certificate of the Univ. of the Cape of Good Hope or School-leaving certificate of the Board, Second Class Teachers' certificate (Transvaal and Natal Province), Eindexamen in Holland of Gymnasium or Hogere Burgerschool, Diploma in Switzerland of "École Supérieure de Jeunes Filles," Abiturienten-examen or Maturitäts-Prüfung in Germany or Switzerland at a gymnasium, Hoofdakte-examen in Holland, any British Higher School Certificate, or School Certificate *with credit*. Dynamics of the Scottish Universities preliminary examn. and Mechanics of the Senior or School-leaving Certificate (S. Africa) are accepted in lieu of a matricn. science subject.

Candidates over the age of 25 who desire to proceed to a degree course or to some professional qualification and are not eligible for exemption under the ordinary regulations may, under certain conditions, be specially exempted from Matricn. on the recommendation of the Univ. or other authority concerned.

The address of the Secretary (who is also Registrar of the Univ. of S A) is P O Box 392, Pretoria

The JOINT COMMITTEE FOR PROFESSIONAL EXAMNS. (Address—P.O. Box 392, Pretoria), consisting of 2 representatives of each of the 4 Univs. (one for Law and one for Survey) and 5 persons appointed by the Govr.-General (of whom at least 2 must be for Law and 2 for Survey), controls and conducts: (1) Law Certificate Examn., (2) Civil Service (Lower and Higher) Law Examns., (3) Examns. in Theory of Land Surveying, and (4) Final Examn. for Patent Agents. It also conducts in certain cases on behalf of the Supreme Court the Advocates' Admission Examn. in Roman-Dutch Law and the Statute Law of the Union.

A NATIONAL UNION OF SOUTH AFRICAN STUDENTS was formed in 1924. President, L. Marquard, Grey College School, Bloemfontein; Secy., C. J. O'Kennedy, Secondary School, Riebeeck West, C.P.

TERMS The academic year is usually divided into 4 terms, beginning in Feb or March and ending Nov or Dec. At Stellenbosch there are two Semesters, beginning end of Feb and end of July.

# UNIVERSITY OF CAPE TOWN

WITH WHICH IS INCORPORATED THE

## SOUTH AFRICAN COLLEGE

VISITOR—THE GOVERNOR-GENERAL.

CHANCELLOR—THE PRINCE OF WALES.

VICE-CHANCELLOR—Principal Sir CARRUTHERS BEATTIE, D.Sc., LL.D.,  
F.R.S.E.

PRESIDENT OF CONVOCATION—Advocate R. W. CLOSE, K.C., B.A.,  
LL.B., M.L.A.

CHAIRMAN OF COUNCIL—J. M. RUSSELL, M.A., B.D., LL.D.

REGISTRAR—W. G. R. MURRAY, M.A.

### PROFESSORS, LECTURERS, ETC.

#### *Accounting and Business Method*

Galbraith, H. G., B.A. Camb,  
C.A. Edin. Prof.

Notcott, H. J., F.S.S.A., A.S.A.A.  
Asst.

#### *African Life and Languages*

Barnard, T. T., B.A. Ox., Ph.D  
Camb.

Prof. of *Social Anthropology*

Beach, D. M., B.A. Harv., Ph.D

Lond. Sr Lectr. in Phonetics.

Goodwin, A. J. H., B.A. Camb.

Sr. Lectr. (Soc. Anthro-  
pology).

Bleek, Miss D. F. Hon. Reader.

#### *Anatomy*

Drennan, M. R., M.A., M.B., Ch.B.  
Edin. Prof.

Wolff, R., B.Sc., M.R.C.S., L.R.C.P.,  
L.D.S. Asst.

Gordon, W. L., O.B.E., M.D.,  
F.R.C.S. Edin. Lectr.

Walker, E. H., M.B., Ch.B.  
Junr Lectr

Maasdorp, C. G. de V., M.B., Ch.B.  
Asst.

#### *Bacteriology*

Campbell, W., M.B., B.Sc. (P.H.)  
Edin. Prof.

Greenfield, Miss E. C., M.B., Ch.B.  
Junr. Asst.

#### *Bio-Chemistry*

[Lectr.  
Bosman, L. P., B.A. Ph.D. Edin

#### *Botany*

Compton, R. H., M.A. Camb  
Prof and Dir. of National  
Bot. Gardens.

Adamson, R. S., M.A., B.Sc. Edin.,  
M.A. Camb. Bolus Prof.

Stephens, Miss E. L., B.A., F.L.S.  
Sr Lectr.

Levyms, Mrs. J. E. P., B.A. Lectr.  
Bolus, Mrs. F., B.A.

Curator of Bolus Herbarium.

#### *Demrs*

McLeod, Miss E. C., B.A.

Tucker, Miss H., M.A.

#### *Chemistry*

Tietz, H., M.A., Ph.D. Berl.  
(Organic) Prof.

Thomas, J. Smeath, D.Sc. Liv.  
Prof. (Inorganic C.).

Newbery, E., D.Sc. Manc , F I.C.  
(Physical) Prof.

Pugh, W., B.Sc. Lond., Ph.D.  
Lectr.

Vogel, J C , M Sc South Africa  
Lectr

Denis-Nathan, L , M Sc Demr  
Southwood, W. W , M Sc. Demr

### *Classics*

Ritchie, W , M A Aberd , M A  
Ox , LL D , D Litt.

Prof (Latin and Class  
Philol.).

le Roux, T , M A , Litt.D. Amst  
Prof (Gk )

Rollo, W , M A. Glas , Litt D  
Leiden Sr. Lectr

Farrington, B , M A , N U.I . , ,

### *Commerce*

Plant, Arnold, B.Com Lond.  
Hutt, W H , B Com Lond

Senr Lectr

### *Economics*

Leslie, R., M A Edin , Dean of  
Fac of Commerce Prof

Goodfellow, D M , B Sc Lond  
Sr. Lectr.

### *Education*

Clarke, F , M A Ox Prof

Scrimgeour, A C S , M A Edin  
(Method) Prof

Sr. Lectrs. :

Jamieson, J N , M A St And

Malherbe, E G , B A , Ph D  
Colum

### *Lectrs*

Burger, J F , M A , Ph D.

Malan, Miss A M., B A

Peffer, Miss R

3 Assts.

### *Electrotechnics*

Bohle, H , M.V.D.E , M I E E [Prof

Campbell, D , B Sc. Sr. Lectr

### *Engineering, Civil*

Snapé, A. E , M Sc. Manc ,  
F R San I. Prof.

Stewart, G S , A.M I.C.E.  
Sr. Lectr.

Gilmore, J. A., B.Sc., M.A. Demr.

*Engineering, Mechanical* [Prof.

McMillan, D., A R.T.C., A.M I.M.E.

Weaver, W G , A M.I.M E

Sr. Lectr.

Brooks, J. J., A.R.C.S. Lectr.

Tankard, D. S. Asst.

*English* [Prof (E Lit )

Clark, J , M A., LL D. St. And

Mackie, W. S , M A Aberd ,

B A. Ox. Prof. (E. Lang ) .

Sewell, W. A , B.A. Leeds

Sr Lectr

Davey, Miss L , M A Junr. Lectr

### *Ethics and Politics*

Malan, G. H. T., M.A., D.Phil

Glas. Prof.

### *Fine Art*

Wheatley, J. Prof.

12 Assts

### *French*

Nauta, R. D., O.I.P. Prof

Jacot, Miss V., M A Asst

### *Geology, v Mineralogy*

### *German*

Prinz, J , Ph D Munich Prof.

Bodmer, F , Ph D Zurich Lectr.

### *Hebrew*

Bender, A P , M A Camb Prof

### *History*

Walker, E A , M A Ox Prof.

Mandelbrote, H , M A , LL B

Cape, B A Ox Sr Lectr

Marais, J. S , M A , D Phil. Ox

Sr. Lectr

### *Law*

Wille, G., B A , LL B Camb [Prof

Wyle, J. K., M.A., LL.B., D.Litt.

Edin., LL.B. Lond.

Prof. (Rom. L ) .

Emmett, E., M.A , LL.B. Manc.

Prof.

Clouts, P. M., LL.B. Camb , B.A.

Lectr.

De Villiers, J. F., B A , B.C.L.

Ox., B.A. Cape Lectr.

Thompson, C. N , M A , LL.B.

Camb. Lectr.

*Mathematics, Pure*

Crawford, L., M.A. Camb., D.Sc.  
 Glas. Prof.  
 Skewes, S., B.Sc., M.A., B.A.  
 Camb. Sr Lectr  
 Pagan, Miss G. M., M A S. Afr  
 Lectr.

*Mathematics, Applied*

Brown, A, M A. Camb, M A,  
 B Sc Edin. Prof.  
 v. d Lingen, J. S, B.A., Ph D.  
 J. Hop. Sr. Lectr.

*Mineralogy and Geology*

Young, A, M A., D.Sc Edin Prof.  
 Walker, A. R. E., B Sc. Lond,  
 A R.C S Lond. Sr. Lectr

*Music*

Bell, W. H, F.R.A M. Prof

Sr. Lectrs. :

Bell, Mrs. W. H., L.R A M.,  
 Bonner, Miss E., L.R.A.M.,  
 A R.C.M. ; Fincken, Miss E,  
 A R A M., Haasdyk, P. W. ;  
 Lardner, Mrs. D F., L.R.A.M,  
 A.R.C M. ; Marx, E. ; Rainier,  
 Miss E. F. D, L R A.M.,  
 Taylor, C.

Lectrs. :

Greathead, Miss L. B, A R.A M.,  
 Isaacson, Miss L., Leffler,  
 Miss W., L R A M, Tobias,  
 I., A.R.A.M.

19 Assts.

*Nederlands en Afrikaans*

Bosman, D. B., M.A. Cape, Ph.D.  
 Groningen Prof. (Lang)  
 Botha, M. C., M A. Prof. (Lit.).  
 van der Merwe, I. W., M.A Lectr.  
 Bosman, F. C. L, M.A. Lectr.

*Philosophy, v. also Ethics* [Prof.

Reyburn, H., M.A., D Phil. Glas.  
 Eales, W. C., B.A. Cape Sr Lectr.  
 Taylor, J. G, M.A. Aberd.  
 Sr. Lectr.  
 Thompson, Miss E. M., B.A. S. Afr.  
 Lectr.

*Physics*

Ogg, A, M A, B.Sc Aberd, Ph.D.  
 Gott. Prof.  
 Schonland, B. F. J., O.B.E., B.A.  
 Camb Sr Lectr.  
 Grindley, E N, M Sc Bristol Lectr.  
 Alper, Miss T, B A Demr.  
 Malan, D. J, B Sc. Demr.

*Physiology*

Jolly, W A, M B, Ch B., D Sc,  
 LL D Edin Prof  
 Zwarenstein, H. J, M A., B Sc.,  
 Ph.D Sr Lectr.

*Politics, v. Ethics**Zoology*

Hogben, L., M A. Camb., D Sc.  
 Lond. Prof  
 Zoond, A, M Sc McGill Lectr  
 Hogben, Mrs D L, B A. Demr

Medicine (for subjects of the first  
 2 yrs — Anat., etc., v. *supra*)

*Anæsthetics*

Forbes, A. Gordon, M.B., Ch.B.  
 Edin. Lectr.  
 Muir, R. M, M.B., Ch.B. Edin.  
 Lectr.  
 Berelowitz, H., M.B., Ch.B.  
 Clin. Instr.

*Dermatology*

Smith, Hugh, M D. Lond Lectr

*Diseases of Children*

Leipoldt, C L., L.R C.P, F.R.C.S.  
 Lectr.

*Ear, Nose, and Throat*

Luckhoff, J, M.D. Edin Lectr.

*Infectious Diseases*

[Lectr.  
 Wicht, J F, M D Dub, D P.H.

*Med. Jurisprudence*

Fehrson, F. O., L.R.C.P., M.R.C.S.,  
 D.P.H. Lectr.

*Medicine*

Falconer, A. W., C.B.E., M.D.  
 Aberd., M.R C.P. Prof.  
 Forman, F., M.B., Ch.B. Edin.  
 Lectr.

*Medicine, Clinical*

Marais, D P, M.D., M R C P.  
Edin. Lectr.

Silberbauer, S. F., M.D., F.R.C.P.  
Edin. Lectr

*Medicine, Psychological*

Swift, E. W. D., M.B. Lond.  
Lectr.

Kooy, F. H., M.R.C.S., L.R.C.P.  
Lectr.

*Obstetrics and Gynæcology*

Crichton, E. C, B A, M B,  
B.A.O., B.Ch. Dub Prof.

*Obstetrics, Clinical*

Simpson Wells, A, M A, M D  
Glas, F R C S E Lectr.

Charnock, F. S., M.B., Ch.B.  
Manc. Tutor.

Sharp, C. W. C., L.R.C.P.,  
L.R.C.S., F.R.C.S., L.F.P.S.  
Tutor.

*Ophthalmology*

Wood, D J, M B, C M Edin  
[Lectr]

*Pathology*

Ryrie, B J, M B, Ch B Edin.  
[Prof]

Fuller, T. A., M.B., Ch.B. Edin  
Asst.

Vadas, Miss D. G., M.B., Ch B.  
Junior Asst.

*Pharmacology*

Gunn, J. W. C., M B., Ch.B. Edin.  
Epstein, D., M.B., Ch.B., Ph.D.  
[Prof.]  
Asst,

*Public Health*

Higgins, T S, M.D., B.S., B.Sc.  
Lond, D P H Camb. Lectr  
[Lectr.]

*Radiology*

Van Roojen, J., M.D., M.R.C.S.,  
L.R.C.P., D.M.R.E

*Surgery*

Saint, C F. M., C B E., M D, M.S.  
Durh., F.R.C.S. Prof.

*Surgery, Clinical*

Elhott, C. C., M D., M.R.C.S.  
Lectr.

Fuller, E B., M B, F.R.C.S.E.  
Lectr

McLachlan, A. R., F.R.C.S.,  
L R C.P. Lectr

Sandes, T L, O B E, M A, M D  
Dub, F.R.C.S Eng, F.R.C.S

Irel Clin Tutor

*Vaccination*

Wicht, J. D, M D Dub Lectr.

*Venereal Diseases*

O'Malley, C. K, M C, M B,  
B Ch, B A O., M.S. Irel,

D M R.E Camb Lectr.

## GENERAL INFORMATION

The University of Cape Town, with which is incorporated the South African College, created by Act 14 of 1916, came into legal existence on April 2, 1918, when the Council took over a bequest by Sir Julius Wernher of £250,000 and a donation of equal amount from Mr. (now Sir) Otto Beit, who added £50,000 to a lapsed bequest by Mr. Alfred Beit. The S. African College, out of which the University grew, opened in 1829 as a private venture, became a public institution in 1837. In 1895 classes were opened in mining engineering. In 1900 the matriculation classes were transferred to the College school and the College confined itself to University teaching. In 1902 £40,000 was collected from past students and others, and courses for medical students and civil, mechanical, and electrical engineers were begun. Provision was made in 1910 for post-graduate courses for the training of teachers, in 1917 for the third year of medical study, and in 1918 for a complete medical course. In 1921 Schools of Commerce and of Music were established. Early in 1921 a special appeal for funds was concluded; the amount obtained was about £280,000, including a sum of £50,000 for the Jameson Memorial Hall.

A site for the University has been provided by Government at Groote Schuur, a suburb of Cape Town. Pending the erection of buildings there, those formerly occupied by the Univ. of the Cape of Good Hope have been rented.



**LIBRARY**, 30,000 vols. Access to S.A. Public Library, 100,000 vols., specially well equipped in Bot and Zool. Depts. Also Bolus Bot. Library and (for students of Teaching) the Library of the Educn. Dept. The Bolus **HERBARIUM** includes Guthrie Collection of Cape Flora. The S.A. **MUSEUM** of Nat Science adjoins the Univ. grounds. **MARINE BIOL. LABORATORY** at St. James'.

**FACULTIES.** Arts, Commerce, Science, Engineering, Law, Medicine, Education, and Music.

**DEGREE COURSES.** B.A., 3 yrs.; B.Sc. (in Pure Sc.), 3 yrs.; B.Com., 3 yrs.; LL.B., 5 yrs.; B.Sc. (in Applied Sc.), 4 yrs.; B.Mus., 4 yrs.; M.B., Ch.B., 6 yrs. Higher degrees: M.A., 1 yr.; M.Sc., 1 yr.; M.Com., 1 yr.; B.Ed., 2 yrs after B.A. The M.A., M.Sc., and M.Com. courses are open to graduates of any approved Univ.; so also are courses for the Ph.D. (open to bachelors of at least 3 yrs.' standing), and D.Litt., D.Sc. (open to bachelors of at least 4 yrs.' standing), for which attendance for 2 yrs. may be required. The M.Com. is open to B.Com. of 3 yrs.' standing. The LL.M. is open to LL.B. after 2 yrs.' attendance; the LL.D. is open to LL.B. or LL.M.

**OTHER COURSES.** For Teachers' Certificate—Secondary Higher, Secondary Lower, Primary Higher; Univ. Diploma in Commerce, in Architecture, in Music, in Fine Art, in Speech Training (elocution); Univ. post-graduate diploma in public health, Law Certif., Land Surveying, Civil Service Law examn., Dentistry (preliminary subjects), and for students of Agric. and Theol. proposing to graduate in those subjects elsewhere

**RECOGNITION OF AND BY OTHER INSTITUTIONS.** Attendance in Stellenbosch and the constituent Colls of the Univ. of S. Africa is accepted under certain conditions as part of the attendance qualifying for degrees. Attendance on classes in Physics, Chem., Bot., and Zool. is accepted by Aberd., Bris., Durh., Edin., Glas., Liv., Manc., Dub., R.C.P. Lond., R.C.S. Eng.; so also are examns. in the Faculty of Arts on the special courses in these subjects (except by Dub.). Attendance on courses in Anat. and Physiol. is accepted by Aberd., Durh., Edin., and Glas., R.C.P. Lond., and R.C.S. Eng., examns. in the Faculty of Arts in these subjects are accepted by Aberd. The Dentistry course is recognized by the R.C.S. Eng., R.C.P.S. Edin., and Edin. Dental School; the Hygiene course by the Conjoint Boards of Eng., Ire., Edin., and Glas.

**FEES.** For tuition, including registration, excluding laboratory fees, annually: Arts or Sc., from £23 to £31; Engin., £31 to £35; Med., £38 (average); Law (LL.B.), £23 to £29, Law Certif., £11; Teaching, £15 to £27; Surv., £27; Commerce (B.Com.), £23, Architecture, £35; Fine Art, £32, Music, £25 to £40. Examn. and graduation fees, minimum: B.Ed., £10; B.A. or B.Sc. or B.Com., £11; B.Sc. Engin., £20; LL.B., £30; M.B., Ch.B., £30; Master's degree, £6; Doctor's, £13.

**SCHOLARSHIPS OPEN TO GRADUATES OF THE UNIV.** Jamison, Croll, Porter, George Grey, Donald Currie, Willem Hiddingh, and several others, of £150 and £200 p.a., tenable generally for 3 yrs., and awarded from time to time after the M.A. or M.Sc. examns.; £150 p.a. for 2 yrs., awarded annually after the B.Sc. (Engin.) examn.; £150 for 1 yr., awarded annually after the final professional examn. for M.B., Ch.B. H. B. Webb Gift Research Scholp. of £200 p.a., tenable for three years, is available for award every three years to graduates of the University.

Travelling concessions to students are granted by the Union-Castle S.S. Coy. and (except to law students and married persons) by the Union Railways.

**RESIDENCE.** Hostels for 270 men and 200 women. Board and residence, £60 p.a.

PUBLICATIONS. *Calendar* (Dec.); Students' Repve. Council's *University Quarterly*; *Annals of the Bolus Herbarium*; *The History of South African College, 1829-1918*, by Prof. W. Ritchie (2 vols., Maskew Miller, Cape Town)

## THE YEAR 1927

BENEFACTIONS. Michael Hiddingh, bequest of £5000 for founding a scholarship to enable young persons to pursue a course of professional study. Miss M. J. Philip, bequest of £884, interest on which will be applied to purchase of books and periodicals for the library.

NEW BUILDINGS. Residences for men and women students and new block for anatomy, physiology, and bio-chemistry completed. Satisfactory progress was made on the blocks for (a) mathematics and physics; (b) arts and education, (c) botany and zoology. Work on the preparation of the new cricket ground and the hockey ground was begun during the year, and four additional tennis courts were opened for play.

NEW POST. Senior Lectureship in Commerce.

DEATH. Dr. E. S. Edie (Professor of Bio-Chemistry). RESIGNATIONS. Lecturers Miss D. de Marillac (Speech Training); F. A. Donnolly (Pathology), Miss M. Freund (Speech Training); R. R. B. Howes (Law) (honorary), Miss N. McCullough (Bacteriology).

HONORARY DEGREES LL.D.—Rt. Hon. Sir James Rose-Innes, Sir John G. Kotze.

STUDENTS. 1912.

DEGREES. Arts, 112; Sc., 18; Engin., 12; Law, 17; Med., 25; Educn., 6; Comm., 4.

# UNIVERSITY OF SOUTH AFRICA

(By Act 12 of 1916 of the Legislature of the Union of South Africa the UNIVERSITY OF THE CAPE OF GOOD HOPE, incorporated by Act of the Cape Legislature in 1873, became and was incorporated in the UNIVERSITY OF SOUTH AFRICA with administrative seat at Pretoria).

CHANCELLOR—Field-Marshal H.R.H. THE DUKE OF CONNAUGHT AND STRATHEARN, K G , K.T , K P

VICE-CHANCELLOR AND CHAIRMAN OF COUNCIL—H BRYAN, M A

CHAIRMAN OF THE SENATE—Professor A E DU TOIT, M A

PRESIDENT OF CONVOCATION—Adv A A ROBERTS, B A , LL B

REGISTRAR—C. C GRANT, M B E , M A (P.O. Box 392, Pretoria).

## CONSTITUENT COLLEGES

GREY UNIVERSITY COLLEGE, Bloemfontein (1855).

HUGUENOT UNIVERSITY COLLEGE, Wellington (1874)

NATAL UNIVERSITY COLLEGE, Pietermaritzburg (1909).

POTCHEFSROOM UNIVERSITY COLLEGE, Potchefstroom (1922)

RHODES UNIVERSITY COLLEGE, Grahamstown (1855).

TRANSVAAL UNIVERSITY COLLEGE, Pretoria (1903).

## GENERAL INFORMATION

FACULTIES: Arts (including Fine Arts, Divinity, and Music), Education, Science, Engineering, Agriculture, Law, Commerce and Public Administration, Veterinary Science

DEGREES. B.A., M.A., M.Ed., D.Litt., D.Phil.; B.D., D.D.; B.Mus., D.Mus., B.Com., M.Com.; B.Econ., M.Econ.; B.Sc., M.Sc., D.Sc., B., M., and D.Sc. in Engin.; B., M., and D.Sc. in Agric.; LL.B., LL.M., LL.D.; B.V.Sc., D.V.Sc.

Courses for B.A., B.Com., B.Econ., B.Sc.—3 yrs.; B.Mus., B.A. (Fine Arts), B.Sc. Eng., B.Sc. Agr.—4 yrs.; B.V.Sc.—5 yrs.; LL.B.—3 yrs., after graduating in some faculty other than Law. *Internal* candidates for these degrees must have attended as registered matriculated students at a Constituent Coll. for the prescribed periods, provided that the Senate will accept as qualifying attendance on recognized courses at any of the other South African Univs. and may accept attendance and examns. at other recognized Univs., or at other institutions specially recognized by the Senate for the purpose. But the minimum attendance at approved courses at the Univ. of S.A. for the Bachelor's degree in Applied Science is the final 2 yrs., and for other Bachelor's degrees at least one-half of the courses prescribed. *External* students must have their curricula approved by the Senate and must pass the examns. prescribed for them from year to year by the Senate in order to qualify for degrees.

The M.A., M.Sc., M.Com., M.Econ., and M.Sc. (Agric.) courses each cover 1 yr. after the Bachelor's degree ; the M.Ed. 2 yrs. The M.Sc. (Engin.) may be conferred on a B.Sc. (Engin.) who has had, since graduating, 2 yrs.' practice of his profession. A thesis is required for the LL.M., M.Sc. (Agric.) or M.Sc. (Engin.). Doctorates are granted for approved theses to bachelors of at least 5 yrs.' or masters of at least 4 yrs.' standing (reducible to 4 and 3 respectively in consideration of attendance for one year as a research student at an approved institution). The Master's and Doctor's degree may also be conferred *honoris causa*.

*Research (Bachelor) Degrees.* On proof of special qualifications in any direction a person may be exempted from the matricn. examn. and admitted to courses of special study and research with a view to graduation, the conditions being determined by Boards of Faculty, subject to approval of Senate.

*Diplomas* in Domestic Science and Education (Lower) open to matriculated students—3 yrs.' course ; in Education (Higher)—1 yr. course after graduation ; (as a temporary measure) in Commerce and Public Admn.—non-matriculated students who fulfil examn. requirements for B.Com. or B.Econ. ; in Bantu Studies (Lower and Higher) , to Music Teachers.

SCHOLARSHIPS : 2 or 3 of £150 to £200 p a. for 3 yrs. awarded annually on results of M.A. and M.Sc. examns ; Webb Research Scholarship, £200, open to holders of M.A. or M.Sc. of not more than 2 yrs.' standing, undertaking approved course of research work, renewable from year to year up to 3 yrs. ; 1 Music Scholarship of £200 p a. for 3 yrs , tenable at Royal Coll. of Music, London

UNIV. FELLOWSHIP . £250 per annum for two years to enable any Professor or Lecturer of the Univ. to carry out a special branch of research work.

SCHOOL AND MUSIC EXAMNS. The Univ. controls and conducts a *Junior Certificate* examn. of standard 2 yrs. below matricn., and examns. for Music Certifs. and Licentiate Diplomas (for Teachers of Music and Solo Performers). The examiners in the practical music examns. are nominated by the Assoc. Board of R.A.M. and R.C.M , London.

PUBLICATION. *Calendar* (March), 2s. 6d

## THE YEAR 1927

DEGREE HONORARY. D.Sc., 1.

STUDENTS. Internal, 1824 ; External, 899.

DEGREES. B.A., 206 , B.A. (Fine Arts), 1 ; M.A., 26 , B.Sc., 77 ; M.Sc., 10 ; LL.B., 13 ; LL.M., 1 ; B.Com., 26 , B.Sc. Agric., 7 ; M.Sc. Agric., 1 ; B.Sc. Engin., 2 ; B.Vet.Sc., 6 ; M.Ed., 1 ; B.Econ., 2 ; M.Econ., 1 ; B.D., 2. Diplomas—Education (Higher), 117 ; Educn. (Lower), 10 ; Bantu Studies, 9. Diploma in Economics, 4 ; Diploma in Music, 1.

# GREY UNIVERSITY COLLEGE, BLOEMFONTEIN, O.F.S.

CHAIRMAN OF COUNCIL—J. S. M. RABIE, B A. Cape

VICE-CHAIRMAN—J. H. B REITZ.

RECTOR— . . .

REGISTRAR—R. B SAAYMAN, B.A. Cape.

## PROFESSORS, LECTURERS, ETC.

### *Afrikaans and Dutch*

Malherbe, D F, B A Cape,  
Dr Phil Freiburg, Br. Prof  
van der Merwe Scholtz, H, M A,  
D Litt Utrecht  
Lectr (Dutch)

### *Botany*

Potts, G, B Sc. Durh, Ph D.  
Halle Prof  
Gemmell, Miss D M., B.Sc. Demr  
Hatchard, Miss J, B.Sc Demr

### *Chemistry*

Rindl, M, D.Ing. Charl. Prof.  
Zweerts, F, Ingr Delft Lectr.  
Schmidt, U, B Sc. Demr.

### *Classics*

[Prof.  
Ross, J. A, M A Cape (Greek)  
Raynes, M A, M A, Ph.D (Latin)  
Prof  
Steven, S J H., M.A. Lectr

### *English*

Johnson, W S., M A., R.U I. Prof  
Newman, Mrs G., M.A Lectr

### *Geology*

Von Bonde, W., M.A, D.Sc. Cape  
Town Lectr.  
Maartens, Miss M. J, B Sc. Demr.

### *German and French*

Dekker, J. J., M.A, D Phil.  
Vienna Lectr.  
Tielking, Pastor Lectr.

### *History, Economics and Politics*

Barnard, S P, Litt Docts Leyd.  
Prof  
Fourie, I. S, B A. Lectr.

### *Law*

[Lectr  
Brink, C. P., B.A., LL.B. Cape  
Hæxter, O, B A, LL.B Cape,  
B A Camb Lectr.  
Edeling, H J, B Sc, LL B Cape  
Lectr

### *Mathematics (Pure and Applied)*

Arndt, W. F. C, B A. Cape,  
Dr Phil Gott Prof.  
Arndt, J G A, M.Sc., Dr.Phil.  
Gott Lectr  
Dommisee, J, M Sc. Asst

### *Pedagogy*

Eybers, E., M.A. Edin., Ph.D.  
New York Prof.  
de Wet, B A, M A, D Phil.  
Munch Lectr.

### *Philosophy*

Forsyth, T. M., M A., D.Phil.  
Edin Prof.  
Schmidt, C H, M A., B I. H.  
Lectr. (Psychol.).

### *Physics*

Logeman, W. H, M.A. Cape Prof.  
Niebuhr, H J. N, M Sc Demr.

### *Zoology*

Dreyer, T. F., B A. Cape, Ph.D.  
Halle Prof.  
Coster, Miss I. A., B.Sc. Demr.  
van der Linde, W., B Sc. Demr.

## GENERAL INFORMATION

Founded in 1855 by Sir George Grey, the College was reorganized in 1904, constituted a Univ. College in 1907, and incorporated by statute in 1910. It is 2 miles from Bloemfontein town. It provides *courses* for degrees in Arts, Science, and Law, and for the Teachers' Diplomas, and prelim training for Med., Engin., Agric., and Comm.

HOSTELS for men and women within the Coll. grounds. Board and Residence, £15 per quarter. TUITION FEES: £5 per quarter (Law, £2:10s.).

SCHOLARSHIPS, open to residents of O.F.S. for study abroad, 4 or 5 of £150 p.a. for 3 yrs.; of these 3 are for Agric. study.

UNIV. EXTENSION lectures, chiefly by members of the staff, in Bloemfontein and other centres. PUBLICATION: *Calendar* (Dec)

## THE YEAR 1927

RESIGNATION. Rt. Rev J. D. Kestell (Rector).

NEW BUILDINGS. Loan of £50,000 from Government for Science Block.

STUDENTS Total, 432, including 55 graduates.

HUGUENOT UNIVERSITY COLLEGE,  
WELLINGTON, C.P.

PRESIDENT—BERTHA STONEMAN, D.Sc. Cornell

## PROFESSORS AND LECTURERS

<i>Botany</i>	<i>French and German</i>	[Lectr
Grant, Adele L., M A, Ph D	Hansen, Christine, Ph D. Heid.	
Wash		Lectr
<i>Chemistry</i>	<i>History</i>	[Prof.
Kilroe, Miss F. C., B.Sc. Lond.	Stafford, Susan, M A., N U.I.	
<i>Classics</i>	<i>Horticulture</i>	
[Prof. (Latin).	Hebditch, Miss G. L., Dipl. in H.	
Sargent, Helen A., M A Oberl	(Reading)	Lectr.
Fremantle, Miss I. M. E., M.A.	<i>Mathematics</i>	[Prof
Cape T.	Johnson, Alta M., Ph B Neb	
<i>Domestic Science</i>	<i>Philosophy</i>	[Prof.
[Lectr	Stoneman, Bertha, D.Sc. Corn.	
Gregory, Elsie M., Dipl Leeds.	Robson, Grace M., B.A. Cape	
<i>Dutch</i>		Lectr.
[Prof	<i>Physics</i>	[Lectr.
van de Koppel, Miss L. H., M.A.	Ladler, Miss E. M., B Sc. Lond.	
<i>Education</i>	<i>Zoology and Physiology</i>	
[Prof.	Theiler, Miss G., B A, D. ès Sc	
de Wet, Miss F C, M A Col, B A	Neuchâtel	Lectr.
<i>English</i>		
Snell, Florence M., M A. Oberl,		
Ph.D Yale		Prof.
Conradie, E J, M.A. S A.		Lectr

## GENERAL INFORMATION

Originally a department of the Huguenot Seminary founded by Dr. Andrew Murray in 1874, the College was incorporated by Act of the Cape Legislature in 1907 as a College for Women and became a constituent College of the Univ. in 1918.

LIBRARY, over 7000 vols. HERBARIUM, over 2000 specimens. LABORATORIES, Bot., Chem., Physics, Zool., Dom. Sc., Physiol., Psych.

COURSES for B.A., B.Sc., M.A., M.Sc., and Diplomas in Education. Special courses in Horticulture and in Domestic Science.

EXPENSES. Class Fees, £20 per annum. Board at the College Hostel, £44 p.a. PUBLICATION. *Calendar* (Dec.).

## THE YEAR 1927-28

BENEFACTION. Paarl, £100.

STUDENTS. Full-time. total, 88, including 14 graduates.

DEGREES OBTAINED. B.A., 11; M.A., 3; B.Sc., 6; Higher Education, 11.

## NATAL UNIVERSITY COLLEGE, PIETERMARITZBURG, NATAL

CHAIRMAN OF COUNCIL—The Hon Sir JOHN C. DOVE WILSON

CHAIRMAN OF SENATE—Prof A F HATTERSLEY, M.A., F.R.Hist.S.

REGISTRAR—E W BARNES, M.A. Lond. (P O Box 375, Maritzburg).

## PROFESSORS AND LECTURERS

<i>Art</i> [Prof. (Fine Arts). Oxley, O. P. J., A.R.C.A. Lond	<i>Modern Languages</i> Besselaar, G., M.A. Cape, D.Litt Ghent Prof.
<i>Auditing</i> Richards, C. S., M.Com. Lectr	<i>Education</i> Ferguson, J. G. W., M.A. Ox. and St. And. Prof.
<i>Botany</i> [Prof Bews, J. W., M.A., D.Sc. Edin	Reid, A., M.A., B.Sc. Aberd.
Bayer, A. W., M.Sc. Lectr.	Assoc. Prof.
<i>Business Management and Accounting</i> Oldham, O., A.C.I.S. Prof.	<i>Engineering</i> [Prof of Mech. E. Neal, J. H., A.R.C.Sc. Lond. Clark, H., B.Sc. Eng. Lond, D.I.C., A.C.G.I., A.M.I.E.E. Prof. of El. E.
<i>Chemistry</i> Denison, R. B., D.Sc. Leeds, M.A. Cape, Ph.D. Bres. Prof.	<i>English and Philosophy</i> Waterhouse, O., M.A. Manc. and Leeds Prof.
Mudie, A. D., M.A., B.Sc. St. And. Lectr.	Sweeney, G. W., B.A., LL.B. Cape Lectr.
<i>Classics</i> Petrie, A., M.A. Aberd., B.A. Camb. Prof.	<i>French</i> Guilton, P. A., B.A. Lond. Lectr.

<i>Geology and Geography</i>		<i>Mathematics</i> , v. also Physics	
Jehu, R. M., M.Sc. Wales	Lectr.	Roseveare, W. N., M.A. Camb.	Prof.
<i>History</i>		<i>Physics</i>	
Hattersley, A. F., M.A. Camb.	[Prof.]	Mesham, P., M.Sc. Liv	Prof
<i>Law</i>		Coutts, J. R. H., M.Sc. Lond	,
Burchell, F. B., M.A., LL.B. Camb	[Prof.]	A Inst P.	
Sweeney, G. M. J., B.A., LL.B.		Lectr in Applied Maths.	
	Lectr.	<i>Zoology</i>	
		Warren, E., D.Sc. Lond	Prof.

## GENERAL INFORMATION

Established by an Act of 1909, the College was opened in 1910 in the Town Hall and moved in 1912 to its own buildings (which, with equipment, cost £60,000) in the suburb of Scottsville. A new Science block and a women's hostel were added in 1921. Students have access to Maritzburg *Botanical Gardens* and Govt. *Museum*.

COURSES leading to the B.A., B.A. (Fine Arts), B.Com., B.Sc., M.A., M.Sc., etc., 1st examn. for B.Sc. in Agric. (including 1st yr.'s course for Med. students), LL.B., Natal Law Certif. and Natal Advocates' Law examn., Survey examn. (theory only). Recently Faculties of Engineering and Commerce have been instituted in Durban in co-operation with the Natal Technical College, five of the staff of which have become members of the Senate of the Natal Univ. College—four professors and one lecturer. One of the former is the Professor of Fine Arts; and a 4 yrs.' course for the B.A. (Fine Arts) is provided in Durban.

HOSTEL for women students.

HOSTEL for men students in course of erection.

PUBLICATION: *Calendar* (March).

## THE YEAR 1927-28

STUDENTS Full-time. total, 253.

DEGREES OBTAINED. B.A., 19, M.A., 4; LL.B., 2; B.Sc., 14; B.Sc. (Eng.), 1; B.Com., 10.

## THE POTCHEFSTROOM UNIVERSITY COLLEGE, TRANSVAAL

CHAIRMAN OF COUNCIL—Rev. I. D. KRÜGER.

RECTOR AND CHAIRMAN OF THE SENATE—Prof. POSTMA.

REGISTRAR—Prof. J. C. VAN ROOY.

## PROFESSORS AND LECTURERS

<i>Botany</i>		<i>Classics</i>	
Radloff, Miss M., M.Sc. Stell.	[Lectr.]	Postma, F., Litt.D.	Prof.
<i>Chemistry</i>		du Plessis, L. J., M.A. Cape,	
du Plessis, D. J., Ph.D. Bonn, M.Sc.	[Lectr.]	Ph.Cand. Amst.	Lectr.



*Dutch*

Boshoff, S. P. E., Litt. D. Amst.,  
M.A. Prof

Dekker, J., M.A., Litt. D. Amst.  
Sr. Lectr. (Dutch and French).

*Economics*

Van der Merwe, J. P., M.A., Ph.D.  
Amst. Sr. Lectr.

*English*

Norenus, Miss A. C., M.A. Lectr.

*German*

Schulze, H. G., M.A., Ph.D. Bonn  
[Lectr.

*History*

v. d. Walt, A. J. H. J., M.A., Ph.D.  
Berlin Lectr.

*Mathematics and Applied Maths.*

van Rooy, D. J., M.A. Prof.

*Physics*

van Wageningen, G., Cand. Maths.  
and Phys. Amst. Prof.

*Pedagogy*

[Prof.  
van Heerden, J. S., M.A. Harv.

Coetzee, J. C., M.A., M.Ed.,  
D.Phil. S.A. Prof.

*Philosophy*

van Rooy, J. C., M.A. Prof.  
Stoker, H. G., M.A., D.Phil. Lectr.

*Theology*

du Toit, J. D., D.D. Amst. Prof.

du Plessis, J. A., B.A. Cape. Prof.

de Wet, C. J. H., D.D. Amst. Prof.

*Zoology*

[Lectr.  
Eiselen, G. T. S., M.Sc. Witw.

## GENERAL INFORMATION

Founded in 1869 as the Literature and Science department of the Theological School of the Reformed Church of S. Africa, this institution became in April 1919 "Het Potchefstroom Universiteits Kollege voor Christelik Hoger Onderwijs," and was in 1921 admitted as a Constituent College of the Univ. of S. Africa under an Act (No. 25) of the Union.

## THE YEAR 1927-28

BENEFACTIONS. Govt. grant, £10,670; Municipality, £250; Reformed Church, £1750

STUDENTS Full-time: 1200, including 40 graduates.

DEGREES OBTAINED (1927) B.A., 18; B.Sc., 8; M.Sc., 1; H.E.D., 3.

RHODES UNIVERSITY COLLEGE,  
GRAHAMSTOWN, C.P.

CHAIRMAN OF COUNCIL—THE BISHOP OF GRAHAMSTOWN.

MASTER AND CHAIRMAN OF SENATE—SIR J. ADAMSON, M.A., D.Litt.

REGISTRAR—Major E. B. WALKER, M.B.E., M.C.

## PROFESSORS, LECTURERS, ETC.

*Anatomy*

[Lectr.  
Gibb, C. de W., F.R.C.S. Edin.

*Botany*

Smith, N. J. G., M.A., B.Sc., Ph.D.  
Camb. Prof.

*Art*

Armstrong, F. W., A.R.C.A. Prof.  
Greathead, Miss M. Asst.

Britten, Miss L., B.A. Cape Lectr.

*Chemistry and Metallurgy*

Barker, W. F., Ph D. Liv. Prof  
 Smith, J. L. B., B.A. Cape, M.Sc.  
 Stell, Ph D. Camb. Lectr.  
 Dugmore, L. M., M Sc Lectr  
 Sapiro, R. H., M.Sc Demr.  
 Prior, C., B Sc. Demr

*Classics*

Bowles, C. W., M.A Camb. and  
 Cape (Greek) Prof  
 Smail, W. M., M A Ox. and Edin.,  
 B.A. Lond. (Latin) Prof  
 Whiteley, S., M A. Ox. Lectr.  
 Gane, E G, M A Lond  
 Actg Lectr.

*Commerce, Accounting, Business  
Management, etc*

Liddell, D., M A, B Com Edin  
 Sr Lectr

*Drawing and Geophics*

Armstrong, F W, A R C A  
 Instr.

*Dutch*

Dingemans, G. F., M A Edin and  
 Cape Prof.  
 Hendrikz, Miss P., B A S A  
 Lectr

*Economics*

[Sr Lectr  
 Hall, R. L., B.A. Ox. and Cape

*Education*

The Master Prof.  
 Martinus, Miss M., B A. Cape  
 Lectr.

Hendrikz, Miss P., B.A.  
 Head of Practising School.  
 Ramsay, C N. M., M A.  
 3 Instrs

*English*

Kidd, A. S., M.A Camb, Manc.,  
 and Cape Prof.  
 Whiteley, Mrs. S., B A. Ox. and  
 Cape Actg. Lectr  
 Booth, Miss C, M A Actg. Lectr

*French*

Bodmer, H. S. Prof.  
 St Leger, Miss M, M A  
 Actg. Prof.

*Geology and Mineralogy*

Schwarz, E H. L., A.R.C.S Lond,  
 F G.S Prof.  
 Mountain, E. D, B A. Camb,  
 Lectr.  
 Mayne, Miss M L, M Sc.  
 Actg Lectr

*German*

Weehuizen, P. B., M O. Hol. Prof.

*History*

Ewing, J, M A, M C Prof.  
 Rousseau, I. J., B.A. Ox.  
 Sr Lectr  
 Ross, A, B A Lond Actg Lectr,

*Law*

McKerron, G. G, M A, LL B.  
 Edin. and Cape Lectr  
 Back, A W, LL B Lond Lectr

*Mathematics, Pure and Applied*

Williams, D., B Sc Lond. and  
 Cape Prof  
 Martin, J, M.A Camb. and Cape  
 Lectr  
 Wood, A H., M A. Cape Lectr.

*Music*

Collingwood, W, B.A. Ox,  
 A.R.C.O. Lectr

*Philosophy*

Lord, A R, M A Ox. Prof  
 Ramsay, C N M, M A Glas  
 Sr Lectr  
 Levyno, E C, B A Demr

*Physics*

Varder, R. W, M A. Cape Prof.  
 Watson, S W, B A. Camb. and  
 Cape Lectr.  
 Wild, E H, M Sc, Ph D Lectr.

*Physiology*

Drury, E. G. D, M D. Lond. and  
 Cape Lectr.

*Zoology*

[Prof.  
 Duerden, J. E, M.Sc. Cape, Ph.D  
 J. Hopk, A.R.C.S. Lond.  
 Brock, Miss G. T., M.Sc. Lectr.  
 Boyd, Miss E, B Sc. Lectr.

## GENERAL INFORMATION

In 1902 a movement was started for the institution of university education in the Eastern Province, and in 1904 the Rhodes Trustees established for the purpose an endowment of £50,000, which, together with a donation of £5,000 from the De Beers Company and local subscriptions amounting to £10,000, was applied to the development of St. Andrew's College (founded 1855). The College Department (opened in 1878) was separated from its school, and incorporated as Rhodes Univ. Coll. in 1904. In 1906 it received £25,000 under the will of Alfred Beit. In 1926 the Art School was amalgamated with the Coll.

Rhodes Univ. Coll. possesses the only school specially built for the teaching of Fine Art in S.A.

LIBRARY. 18,600 vols.

LABORATORIES. Applied Maths., Bot., Chem., Geog., Geol., Metall., Mineral., Phys., Phys. Chem., Zool.

COURSES. B.A., B.Sc., B.Com., B.Econ., M.A., M.Sc., LL.B., Surveying, Law Certif. (Attorneys), Civil Service Law, Dipl. in Com., Higher and Lower Dipl. in Educ., Art Courses, 1st yr. Course in Med., Dent., Eng., Agric., Vet. Sc., Mining, and Music.

TUITION FEE for full degree course, £24.

COLLEGE SCHOLARSHIPS. open to graduates. 2 of £40, 1 of £50.

HOSTELS for 200 men ("College," "Botha," "Milner," and "Graham" Houses), 130 women ("Oriel" and "Jameson" Houses), with dining halls, etc. Board and Residence, £60 p.a. inclusive.

PUBLICATIONS. *Calendar* (November), *The Rhodian* (twice a year).

## THE YEAR 1927

BENEFACTIONS. Rhodes Trustees, £1,000; Municipal and Divisional Councils of Eastern Province, £2,500; S. Rhodesia Govt., £500.

NEW BUILDING COMPLETED. New School of Art.

BUILDINGS COMMENCED. Complete new Physics Dept., replacing old dept., Physical Chemistry Lab.

NEW POSTS. Professorship of Law, Lectr. in Physics and Psychology.

STUDENTS. Full-time: 430, including 48 graduates.

PURSUING STUDIES ABROAD. Oxford, 6; Cambridge, 5; London, 3; Liverpool, 1.

DEGREES OBTAINED. B.A., 38; M.A., 4; B.Sc., 26; M.Sc., 5; LL.B., 1; B.Com., 3. Diplomas. Higher Educ., 28; Survey, 11; Law Certif., 6.

# TRANSVAAL UNIVERSITY COLLEGE, PRETORIA, TRANSVAAL

CHAIRMAN OF COUNCIL—H. P. VEALE, B.A., M.B., Ch.B.

VICE-CHAIRMAN—J. E. HOLLOWAY, B.A. Cape, D Sc Lond

RECTOR—Prof. A. E. DU TOIT, M A Cape.

REGISTRAR—Advocate A A. ROBERTS, B A Cape, B A , LL B Camb

## PROFESSORS AND LECTURERS

### *Accountancy*

Barnes, S R , F S A.A      Prof  
Petyt, A. S., R P.A.  
Lectr. (Auditing).

### *Agricultural Botany*

Hector, J. M , B Sc Aberd      Prof  
Wyers, Miss E. E , B A      Asst

### *Agricultural Chemistry*

Ross, J. C , B A Cape, M.Sc ,  
Ph D. Illinois      Prof.  
van Wijk, L. P , B Sc Agr      Asst.

### *Agricultural Engineering*

van Tonder, A J , B A Cape,  
M Sc Calif , A C G.I.  
Sr Lectr.

### *Agronomy*

Leppan, H D., B.Sc. Tor.      Prof  
Pullen, A R , M Sc Illinois, B.Sc  
Agr      Sr Lectr

### *Ancient History*

O'Grady, H , Litt D.      Sr. Lectr.

### *Animal Husbandry*

Bosman, A. M , B Sc Tor , Dean  
of the Faculty      Prof  
van Rooyen, L. A , M Sc. Cornell,  
B.Sc. Agr. Lectr. in Poultry.

### *Banking*

Arndt, E H D., M.A., Ph D. Col.  
Rudd, C. C      Lectr

### *Bantu Studies*

Lectrs. :

Lestrade, G P. (Sesutho)  
Dornan, S. S. (Ethnology, Soc  
Anthrop.).  
Kockott, F. J. (Si-Zulu).

### *Bio-Chemistry*

Green, H. H., D Sc Glas.      Prof  
Graf, H , B Sc , B V Sc.      Lectr

### *Botany*

[Prof  
Bremekamp, C. E , Ph D. Utrecht  
Elbrecht, B , B A , M Sc  
Sr Lectr  
Schweickerdt, H G W. J , Ph D  
Bonn, B Sc      Lectr  
Mogg, A. O. D , M.A. Camb.  
Lectr. in Ecology.

### *Chemistry, v also Phys*

Malherbe, D F. du T , M.A., Ph.D  
Halle, Dean of Faculty      Prof.  
Schilz, W. E , D I C Lond , Ph D  
Munich, M Sc.      Asst Lectr.

### *Commerce, v. also Ac., Bus., Geog*

Arndt, E H. D , B A. Cape, M A.,  
Ph D. Columbia  
Prof. of *Economics* and  
E. Hist.  
Norval, A. J., Docs. H.W. Amst.  
Prof.

### *Dairying*

Davel, H. B., B.Sc. Iowa      Prof.

### *Dutch and Afrikaans*

Le Roux, T. H., B.A. Cape, Litt.D.  
Leid.      Prof.  
Kritzinger, M S B , M.A      Lectr.  
Kruger, P., M.A.      Asst Lectr.  
Rademeyer, J. H., M.A.  
Asst. Lectr.

### *Economics, v. Comm.*

*Education*

Hoogenhout, N. M., M.A. Cape, Ph.D. Stras. Prof.

Bosman, J. C, M A Harv.

Prof (History and Principles of E ).

*English*

Wallis, J. P. R., M.A Liv. Prof.

O'Grady, H, Litt.D. Dublin

Sr. Lectr.

Tillestad, R M, M A, LL B.

B.A Ox. Lectr.

*Entomology*

[Prof

Faure, J C, M A, B Sc Corn.

Janse, A. J, D Sc.

Hon Prof. (Systematic Ent ).

Squire, F, B Sc Asst.

*French*

Lamont, J. H. P., M A Wales,

B. ès L Sr Lectr

*German*

de Villiers, W. P, B A Cape, Ph

and Litt D Ghent Sr Lectr

du Toit, M L, M.A. Stel, Ph.D

Vienna Sr Lectr

*Geography and Econ. Geog.*

Plummer, F. E., B A Camb.

Prof.

Hugo, C. F, M A Stell Lectr

*Geology*

De Villiers, L. C, Ph D, M E

Freiberg Prof

Scholtz, D., M.Sc. Stell. Lectr.

*Greek*

Reinink, H, Litt D Amst., Dean of Faculty Prof.

*History*

Fouché, L, B.A Cape, Ph. et

Litt.D. Ghent Prof.

Agar-Hamilton, J. A., M.A. Cape,

B.A, B.Litt. Ox. Sr. Lectr.

*Home Economics*

Davidtsz, Miss M. J., B Sc.

Columbia Sr. Lectr.

*Horticulture*

Powell, H. Clark, B.Sc.Calif. Prof.

*Latin*

Boxwell, J., M.A. Prof.

O'Grady, H, Litt.D. Dub.

Sr. Lectr.

*Law, v. also Pol. Sc*

Pont, D., B.A, LL D. (Roman and Roman-Dutch and Jur.) Prof.

Brookes, E., M A., D.Litt.

Lectr. (Const. L.).

De Wet, Q, B A, LL B

Lectr (Statute Law).

Reitz, R., LL D Amst.

Lectr. (Rom L ).

Hoal, B, B A, LL B.

Lectr. (Crim. L ).

Dowling, W., B.A. Cape, B.C.L.

Ox Lectr. (Comp. L.)

Heather, H G.

Lectr. (Insolvency)

Lansdown, A V.

Lectr. (Rom D L ).

Niemeyer, E C, B A Cape and

Ox. Lectr (Bills of Exch ).

Retief, M., LL B. Stell.

Lectr (Merc. L ).

Findlay, G. S, B.A., LL.B.

Lectr. (Rom. D. L.).

Bresler, C. P, B A. Cape, M.A,

LL.B Lectr. (Rom. D L )

*Mathematics*

du Toit, A. E, M A. Cape Prof

Duminy, J P, M A. Cape, B A,

B Sc. Ox. Sr. Lectr.

de Loor, B, M Sc, D.Phil Amst.

Lectr.

*Mathematics, Applied*

Sherwood, E. T. G., B.A. Cape,

M.A. Camb. Prof.

*Music*

Connell, J., F.R.C O. Prof.

*Semitic Langs.*

[Prof.

Gemser, B, D.Litt., Th.Dip Ox.

*Philosophy, v. also Pol. Sc.*

Hugo, T. J., B.A. Cape, Ph.D.

Gron. Sr. Lectr.

de Bruyn, H. A. J., M.A. Lectr.

Findlay, J N., B.A. Ox., M A.

Lectr.

- Physical Chemistry* [Prof.  
Tromp, F. J., B.A. Camb, D Sc.
- Physics and Applied Maths.*  
Gundry, P. G., Ph.D. Gott., B Sc.  
Lond., A.R.C.S., Dean of  
Faculty of Science Prof  
Voss, V., B.A. Cape, Ph.D Johns  
Hop, M Sc Sr Lectr  
Immelman, M. N. S., M.Sc. Cape  
T. Lectr.
- Physiology*  
Bremekamp, C. E. B., Ph D  
Utrecht Prof
- Political Science, Pub. Admn.,  
and Const Law*  
Brookes, E H, M A, D Litt (also  
Lectr in Philos)  
Prof, Dean of Fac. of  
Commerce and Publ.  
Adm
- de Bruyn, H A J, M A Lectr  
Mullan, F. W, M Econ  
Asst (Correspondence Course)
- Psychology* [Sr Lectr.  
Shawran, P., Ph.D Bonn
- Survey* [Sr Lectr.  
van Tonder, B A Cape, M Sc. Cal
- Theology*  
Greyvenstein, J. H. J. A., B A  
Cape, Th D Utr Prof  
Macmillan, E, M A, B D Glas.  
Prof  
Gemser, B, D Litt, Th D Gron.  
Prof  
Engelbrecht, S P, Th.D Utr.  
Prof.
- Veterinary Anatomy*  
Curson, H H, D M V Hanover,  
M R C V S Prof
- Vet. Bacteriology*  
Robinson, E. M., D.M V. Berne,  
M R C V S Prof
- Vet. Helminthology*  
Monnig, H. O, Ph D Zurich, B.A.,  
B V Sc Lectr  
Le Roux, P. L., B Sc Edin.,  
M R C V S Lectr
- State Vet. Medicine*  
Viljoen, P. R., D.M V. Berne,  
M.R.C.V.S. Prof.
- Pathological Physiology*  
Neser, C. P, D.Sc., M.R C.V.S.  
Prof.
- Vet Municipal Hygiene*  
Goodall, A, F R C V S. Lectr
- Vet. Pathology*  
de Kock, G. v. d. W., D.M.V.  
Berne, M.R.C.V.S. Prof.
- Vet Medicine*  
Fourie, P J J, M R C.V.S Prof
- Vet Pharmacology*  
Steyn, D G, B Sc Stell, Dr Med  
Vet Vienna Lectr
- Vet Physiology*  
Quin, J, B V Sc. Lectr.
- Veterinary Science, v Agric*  
Henning, M. W, M.R C.V S Prof.
- Vet Tropical Diseases and Proto-  
zoology*  
Du Toit, P. J., B.A Cape, Ph D  
Zur, D M V Berl (Dean of  
Faculty of Vet Science) Prof
- Vet. Surgery and Obstetrics*  
Quinlan, J. B, D M V. Hanover,  
M.R C V S Prof.
- Zoology*  
Malan, D. E, M A Cape, Ph.D.  
Zur. Prof.  
Malan, D. J., M.Sc. Lectr.
- Zootchnics* [Lectr.  
Bisschop, J. H, B Sc.Agr, B.V.Sc.

## GENERAL INFORMATION

In 1908 University Classes in Arts, Science, and Law were established at Pretoria by the Transvaal Govt., and were placed under the control of the Council of the Transvaal Univ. College at Johannesburg, the constitution of that body being altered so as to give Pretoria equal representation. A

separation took place in 1910, the Johannesburg section being reincorporated as the South African School of Mines and Technology, whilst the Pretoria section retained the name of the Transvaal Univ. College. In 1917 was instituted a Faculty of Agriculture, financial provision for which (an endowment of £100,000) had been made by the last Parliament of the Transvaal in 1910. The following Faculties have since been established: 1918, Theology; 1919, Commerce and Public Administration; 1920, Veterinary Science; Music, 1923. The original College Buildings were erected and equipped at a cost of £50,000; those of the Faculty of Agric. at a cost of £100,000; those of the Faculty of Vet. Science involved an expenditure of £150,000. A new Science block was completed at the end of 1924 at a cost of £40,000.

COURSES are provided for all Degrees and Diplomas of the Univ. in Arts, Science, Agric., Vet. Sc., Law, Div., Music, and Commerce and Public Administration. FEE for full degree course, £17: 5s. to £27: 6s. p.a.

The Transvaal University College is the only Institution for Higher Education in South Africa which has a Faculty of Theology. A special feature of the Univ. is the work done in the Extra-mural Faculties. In a building in the centre of the town three miles from the main buildings, lectures are given, out of ordinary business hours, for the benefit of public servants, articled clerks, commercial men and teachers. About 300 students are enrolled, practically all for full degree courses for B.A., Law B.A., LL.B., B.Com., B.Econ., a Master's degree, Law Certificate, or Banker's Certificate. The Faculty of Agriculture is one of two in South Africa. It is specialised along different lines from the Faculty in Stellenbosch University, attention being paid to Animal and Field Husbandry and Citriculture (the only course of its kind in the British Empire). The Faculty of Veterinary Science was grafted on to the existing world-famous Veterinary Research Laboratory at Onderstepoort. A five-year course in Tropical Veterinary Medicine is provided, leading to the degree of B.V.Sc.

HOSTELS. 4 for men, including the Dutch and English Church Hostels, and 3 for women. Board and Residence, £60 p.a.

LIBRARY, 48,000. LABORATORIES. Bot., Chem., Entom., Geogr., Geol., Phys., Physiol., Psychology, Zool., Agric., Bot., Agric. Chem., Agronomy, Vet. Anat. ASTRONOMICAL OBSERVATORY.

UNIVERSITY EXTENSION. The faculties of Agric. and Vet. Sc. co-operate with the Union Dept. of Agriculture in connexion with the extension train service organized by it. Public Lectures are being organized in Pretoria and surrounding districts.

PUBLICATIONS. *Calendar* (November); bulletins containing result of research by members of staff.

## THE YEAR 1927-28

RESIGNATION. F. Veglia, D.V.M.

STUDENTS Pursuing studies abroad: 2 at Oxford, 3 at Cambridge, 2 in London, 1 in Trinidad, 2 at Cornell, 2 at Illinois, 1 at Amsterdam, 1 at Edinburgh, 1 at Glasgow, 1 in California, 2 travelling, 1 at Utrecht.

Full-time. total, 443, including 42 graduates. Part-time: total, 284, including 9 graduates.

DEGREES OBTAINED. B.A., 43; M.A., 3; B.Sc., 18; M.Sc., 4; M.Sc. (Agric.), 2; B.Com., 11; B.Econ., 3; LL.B., 5; B.Sc. (Agric.), 6; M.Sc. (Agric.), 2; B.V.Sc., 7; M.Com., 1.

# UNIVERSITY OF STELLENBOSCH

CHANCELLOR—Prof. P. J. G. DE VOS, D Litt.

VICE-CHANCELLOR—Prof A. MOORREES, Litt D S Afr, LL D Cape Town

PRESIDENT OF CONVOCATION—P. J. ROOS, B.A.

CHAIRMAN OF SENATE—Prof W. BLOMMAERT, Litt D Ghent

REGISTRAR—D. J. KRIEL, B.A.

## PROFESSORS, LECTURERS, ETC.

### *Agriculture*

Theron, C. J., M Sc Agric (Enology and Viticulture) Lectr  
 Neethling, J. H., M Sc Corn. (A. Botany) Prof  
 Reinecke, O. S. H., B S A Guelph (Fruit-culture) Prof  
 Brain, C. K., M A Ohio, D Sc Birm. (Entomology) Prof  
 Malherbe, I. de V., Ph.D Mun, B A. (A Chem.) Prof  
 Reimers, J. H. W., Agricultural Engineer, Wageningen (Animal Husbandry) Prof  
 Van der Byl, P. A., M A, D Sc (Plant Path) Prof  
 Grosskopf, J. F. W., M A, Jur Dr Leiden Prof  
 Mally, C. W., D Sc Stell, M Sc (Entom) Prof  
 Marais, J. S., Ph.D. Illinois, B.A. (Agronomy) Lectr  
 Van der Merwe, Ivy M., B Sc. Manitoba (Domestic Science) Lectr.  
 Parkin, B. S., M R C V S. Lectr.  
 Verwoerd, L., M.Sc. Lectr.  
 Swart, J. C., M Sc Agric. Lectr  
 Smit, B. J., Ph D Wisconsin, B A Lectr  
 Sim, J. T. R., M Sc S Afr Lectr  
 Potgieter, J. T., Ph D Ohio, M Sc. Stell. Lectr.  
 du Toit, M. G., B.A., Ph D Lectr.

### *Bantu*

[Lectr.  
 Eiselen, W. M., M A, Ph D Hamb.  
 Engelbrecht, J. A., M A, Ph.D. Hamb Lectr.

### *Botany*

[Prof.  
 Nel, G. C., B A., Ph D. Berl.  
 Duthie, Miss A. V., M A Lectr  
 Markotter, Miss E., M Sc. Lectr.

### *Chemistry*

van der Merwe, C. D., Ph D. Halle, B A Prof.  
 van der Riet, B. de St J., Ph D Halle, M A Prof  
 du Toit, D. F., D Chem Leid, M A. Prof  
 Joubert, D. B., Ph D. M.I.T., M Sc. Lectr  
 Joubert, J. M., M.Sc., Ph D. M I T. Lectr

### *Classics*

van Braam, P., Litt.D Utr., M A (Latin) Prof.  
 Edgar, C. S., B A Ox., M A Edin. (Greek) Prof  
 Basson, J., Ph D Berl, M A. (C. and Classical Philol) Prof.  
 McCulla, J., M A, R.U.I. Lectr.

### *Dutch and Afrikaans*

Pienaar, E. C., Litt.D. Utrecht, B.A. (Dutch) Prof.  
 van Niekerk, Lydia, Litt D Amst, B.A. (Dutch) Prof  
 Smith, J. J., B.A., Barr.-at-Law (Afrikaans) Prof.



Celliers, J. F. E (Literature) Prof.  
 Malherbe, F. E. J., M.A., Litt.D.  
 (Amst) Lectr.  
 Uys, N J, M.A. Lectr.

*Economics*

Grosskopf, J. F. W., Dr. Jur Leid.,  
 M.A. Prof.  
 Coertze, L J, M.A. Lectr

*Education*

[Prof.  
 Cillie, G G., Ph D Stras, B A  
 Cruse, H P., B.A., Litt.D. Amst  
 Prof (History of E)  
 Pauw, D. A. A., B A (Method) Prof.  
 Strasheim, J. J, M A, Ph.D Lond  
 Prof in Pedagogic Psychology  
 Donald, M M., M.A. Lectr.  
 Hofmeyr, Miss J. I., B A. Lectr.  
 Hofmeyr, Miss A S, B A Lectr  
 Stockenstrom, E. C, B A Lectr  
 Neethling, K. Lectr

*English*

Notcutt, H. C, Ph.D Lond Prof  
 Hopwood, D., B A. Ox. Lectr.  
 Walpole, V, M.A Sheff Lectr.  
 Hurst, H. N., B.A. Ox. Lectr.

*French*

Franken, J. L. M, Litt D Ghent,  
 M A. Lectr.

*Geography*

Serton, P, Litt D. Utr. Prof.  
 Conradie, D J, M A Lectr

*Geology*

Shand, S. J, Ph D Munst, D Sc  
 St And. Prof  
 Krige, A V, D.Sc Stell Lectr.

*German*

[Prof  
 Friedlaender, E, Ph D. Stras.  
 Hoge, J, Ph D. Stras. Lectr.

*Germanic Philology*

[Prof.  
 Bouman, A. C., Litt D Utr.

*Hebrew*

[Ag. Lectr.  
 du Plessis, J, D Litt., B.A., B D.

*History*

[Prof  
 Blommaert, W., Litt D. Ghent.  
 le Roux, Miss M., B A. Lectr.  
 ..... (Hist of S. Africa) Prof.

*Law*

..... (Roman-Dutch L.) Prof.  
 Malherbe, W. M. R., Barr.-at-Law,  
 LL.D. Leid. Prof.  
 van Themaat, H. V. L., Dr. Jur.,  
 Dr. Jur. Pol Leiden Lectr.  
 Schumann, C. G. W., B.Sc., Docts.  
 Comm. Rotterdam Lectr.  
 Thomas, B. J. A. Lectr.

*Logic and Psychology*

[Prof.  
 Wilcocks, R W., Ph D Berl, B A  
 Verwoerd. H. F, D Phil., M A.  
 (Applied and Industrial Psy-  
 cology) Prof.

*Mathematics*

Mackenzie, A. H., M.A. Aberd  
 and Camb Prof  
 Stegmann, E. T., B A, D.Sc S.A.  
 Prof

*Mathematics, Applied, and  
 Physics*

Morrison, J. T., M.A., B.Sc. Edin.,  
 F R S E. Prof.  
 Malherbe, W. E., B A, B Sc.  
 Edin Prof.  
 Cilliers, C. A., Ph.D. Frankfurt,  
 M Sc. Lectr.  
 Harvey, S. C., B.A. Lectr.

*Philosophy, Moral and Polit.*

Brummer, N. J., B.D. St. And,  
 M A. Prof

*Physiology*

Battaerd, P, M D. Leiden Prof.

*Theology*

Moorrees, A, Litt.D., LL D. Prof.  
 van Rooyen, E. E, Th.D. Amst,  
 B A. Prof.  
 du Plessis, J, B.A., B.D., D.Litt.  
 Cape Prof.  
 Keet, B. B., Th D. Amst., M.A.  
 Prof.

*Zoology*

De Villiers, C. G. S., M.A., Ph.D.  
 Zur. Prof.  
 Grobbelaar, C. S., M.A., Ph.D.  
 Berl. Lectr.

## GENERAL INFORMATION

The Victoria College of Stellenbosch, established 1881, beginning with a single Department, that of Arts, was in 1916, partly owing to a bequest of £100,000 by the late Jan Marais, granted the status of a University by Act No. 13 of 1916. The University was formally opened on April 2, 1918. By Act No. 45, 1926, which came into force on October 1, 1926, the Faculty of Agric. (whilst remaining for academic purposes a faculty of the Univ.) was amalgamated with the Elsenburg School of Agric., situated in the division of Stellenbosch, to form the "Stellenbosch-Elsenburg College of Agric. of the Univ. of Stellenbosch." This closer co-operation with the Dept. of Agriculture aims at the better co-ordination of resources "for the promotion of agricultural science and the development of agriculture within the Union." In the main the scientific activities are centred at the University and the practical experimental and extension work at the Elsenburg Experiment Station (2600 acres). Dr. C. K. Brain was appointed Acting Principal of the College of Agriculture for two years, and Mr. T W G Remecke, M.Sc., Director of the Experiment Station.

The College of Agriculture is also in charge of the Cereal Experiment Station "Langgewens" (1150 acres) in the division of Malmesbury.

**FACULTIES.** Arts, Law, Education, Science, Theology, Agriculture, and Commerce.

**DEGREE COURSES.** B A (3 yrs), B Sc. (3 yrs.), B.Comm (3 yrs), B.Sc. Home Econ. (4 yrs), B.Sc Agric (4 yrs); LL B (4 yrs or combined with B A., 5 yrs), M A, M Sc, M Sc Agric., M.Comm (1 yr post-grad); B Educ (2 yrs post-grad.); D Sc, D Phil, D Litt, D Comm. (2 yrs after Master's degree), D Sc Agric (1 yr after the M.Sc Agric); LL.D (2 yrs after LL.B); B D (3 yrs. post-grad.); D Ed (3 yrs. teaching experience after B.Educ. and 1 yr further study and research) Courses are also provided for the Secondary Teachers' Higher, Lower, and Primary Higher Certificates; also for certificates in Nature Study and Commerce.

**FEES.** Registration, £2: 5s p a. (incl. sport and fees payable to Students' Representative Council); Library, 5s. p.a. Tuition per semester for master's or bachelor's degree, £10 (B.D., £5); Doctorate, £5 p a. Laboratory per semester, £5 (max.). Examns. B.A, B Sc, B.Comm., B.Educ., £10; for master's degree, £5; Doctorate, £10, LL.B, £30; B.Sc.Agric, £20. Graduation, £2. Board and Residence, £44 p a.

**LIBRARY.** 40,000 vols.

**SPECIAL EQUIPMENT, COLLECTIONS, ETC** The Dept of Botany possesses a large collection of the peculiar xerophytic flora of South Africa. The Dept. of Agricultural Chemistry has a building and equipment for manurial pot-experiments. The Dept. of Bantu Studies is building up a collection of specimens of native art and industry.

**PUBLICATIONS.** *The Calendar*, *The Stellenbosch Student* (by Students' Repr. Council); *Annals of the University of Stellenbosch* (by Senate).

**SCHOLARSHIPS FOR GRADUATES.** Generally tenable for 3 years, and open to holders of M.A., M Sc., M.Sc.Agric., B Educ., M.Comm., B.D., and LL.B. (with B.A.): Porter, Croll, Queen Victoria, Grey, Donald Currie, Union (each £150 p a), Hiddingh and Ebden (£200 p a), Maynard (60 p a.), H. B. Webb (£120 p.a.), Abe Bailey (£300 p.a.).

**EXTENSION WORK.** Evening lectures by members of Staff once a week.

**RESIDENCE.** The John Murray House, affording residence for 350 men students, has been completed at a cost of £109,000. Altogether there are University hostels for 520 men and 190 women.

## THE YEAR 1927

The following overseas visitors gave lectures or series of lectures upon the invitation of the Univ. during the year: Dr. J. P. Lotsy (Editor of *Genetica*, Holland); Prof. Schroeter (Zurich); Dr. Keppel (Carnegie Corporation); Hon. Col. Amery, Minister for Dominion Affairs, H. B. Butler, Esq. (Vice-Director, International Labour Office, Geneva), Prof. Kaiser (Munich); Mr. Burkitt (Cambridge), Prof. Meinhof (Institute of African Languages, Hamburg).

**RESIGNATION.** Prof. Perold (Enology-Viticulture), on apptmt. as Tech. Advis. Co-operative Winegrowers Society of S. Africa.

**HONORARY DEGREE.** D Sc —J. H. J. K. E. Brauns.

**STUDENTS** Full-time. total, 1198, including 163 graduates. Part-time, 68; occasional, 50

**DEGREES.** B A., 104; M A., 16; B Sc., 27; M.Sc., 10; D Sc., 1; B Sc. Agric., 22, M Sc Agric., 3, B Educ., 3, LL B., 2; B.Comm., 2, M.Comm., 1, B D., 4.

## UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG, TRANSVAAL

CHANCELLOR—H R H. PRINCE ARTHUR OF CONNAUGHT

VICE-CHANCELLOR—The Hon J. H. HOFMEYR, M A.

PRESIDENT OF CONVOCATION—Prof R F A HOERNLÉ, M A, B.Sc

CHAIRMAN OF COUNCIL—Sir WM. DALRYMPLE, K B E.

PRINCIPAL—H R RAIKES, A F C, M A

SECRETARY OF SENATE—Prof R. B YOUNG, M A, D Sc, F R S.E.

REGISTRAR—H. W. J. VAN DER BRUGGE, M.A, LL.B, J P.

ASSISTANT-REGISTRAR—J. D. RHEINALLT JONES.

## PROFESSORS, LECTURERS, ETC.

<i>Accounting</i>	Mockford, H. C., C A. S.A.
Findlay, J., C.A. Edin., F S A A.	Lectr. in <i>Company</i>
Eng. Prof	<i>Liquid'n, etc.</i>
Harkness, A. Lectr. in <i>Banking</i> .	<i>Actuarial Science</i> , v. Maths.
Barnes, W. J, C.A S A.	<i>Anatomy</i>
Lectr. in <i>Income Tax</i> .	Dart, R. A., M.Sc. Queensland,
Dreyer, J H, B.Com.	M.D., Ch.M. Syd. Prof.
Lectr. in <i>Accounting</i> .	

Shore, L. R., M.A., M.B., B Ch  
Camb., M R.C.P. Lond,  
D.P.H. Sr Lectr.

Shaw, J. C. M., M.A., B D S. Dub  
Senr. Lectr. in Dental  
Anat, etc.

Mellé, B. G., B A Cape, M A,  
B M., B Ch. Ox., F.R.C.S.  
Edin. Lectr. (Clinical A)

Birbel, G R Jr Lectr  
Trant, Hope, B A, M B, B Ch,  
B.A O. Dub.

Lectr. (part-time).

Hon Demrs

Macgregor, A Lee, M B, Ch B  
Edin., F R C S Eng

Brayshaw, H. C., M B., Ch.B.,  
F.R.C.S. Eng

#### *Architecture*

Pearse, G E, A R I B A Prof  
... .. Sr Lectr

Nelson, J P Part-time Lectr

#### *Bantu Studies*

The Prof of Philosophy  
Head of Dept.

Doke, C M, M.A. S A, Diploma  
Compar Bantu, Lond, D.Litt.  
Sr Lectr.

Hoernlé, Mrs A. W., B.A Cape  
Lectr in *Social Anthropology*  
Jones, J D R.

Lectr in *Native Law and*  
*Admin.* (part time)

Ellenberger, R, B ès L Paris  
Lectr in *Suto* (part time).

#### *Botany*

Moss, C. E., M.A Camb, D Sc.  
Manc, B Sc Leeds, F L S  
Prof.

Moss, Mrs. M, M.A Well.  
Sr Lectr

Young, Miss E, M Sc S.A. Lectr.  
Blenkiron, Marion E, B.Sc. Leeds  
Jr Lectr.

#### *Chemistry*

Wilkinson, J A., M.A. Camb,  
F.C.S. Lond, M.I.Chem.E.  
Prof.

Robertson, J. B., M.A., B.Sc.,  
Ph.D. Edin., F.I.C. Sr. Lectr.  
Krige, G. J R, M Sc Stell, Ph D.  
Gott. Lectr

#### *Chemistry, Organic* [Prof.

Stephen, H, O.B E, D Sc. Manc.  
Backeberg, O. G., B A Ox., M Sc.,  
A I.C. Lectr

#### *Classics* [Prof.

Haarhoff, T. J, B A, B Litt. Ox.  
Williams, Miss M V., M A Camb,  
B A Cape Sr. Lectr.

Wagner, A I., B A. Ox and Cape,  
LL.B. Lond Sr. Lectr.

Acheson, G. J, M.A Ox.  
Jr. Lectr

#### *Dutch*

Krige, J D A, Ph D Ghent, M.A  
Cape (also Lectr in German)  
Prof.

Le Roux, J. J, B A Cape,  
Litt D Utrecht Sr. Lectr.

#### *Economics, Econ. Hist., and* *Statistics*, v. also Hist.

.... . Prof  
Frankel, H, M.A. Sr. Lectr.

Jones, W P  
Hon. Lectr in Public Finance.

#### *Education* [Prof.

Macgregor, W. R, M A Aberd  
van der Merwe, P. J, M A  
Asst (part time).

#### *Engineering, Electrical*

Randall, O. R., M.Sc, Ph D.  
Birm. Prof

Goldsmith, A., B.A Cape, B.Sc  
Eng Sr. Lectr.

#### *Engineering, Mechanical*

Walker, W. J, D Sc. Eng, Ph.D.  
St And De Beers Prof

Jensen, A E, B.Sc. Lond and  
S.A. Sr. Lectr.

Gimkey, F, M Sc S.A. Sr. Lectr.  
Drysdale, J, A.M.I.E.S. Jr. Lectr.

#### *Engineering. Civil* [Prof.

Sutton, W. G., B.A., B.Sc. Cape  
Webb, J. M., B.A. Ox. Lectr.

*English*

Drennan, C. M., M.A. Camb and Lond. Prof.

Lawrie, J. G., M.A. S A Lectr.

*French and Romance*

Maingard, L. F., M.A., D.Lit. Lond., L. en D. Paris. Prof.

Papenfus, Miss E M, B A, Ph D Lond. Jr Lectr.

*Geography*

Wellington, J H., B A. Camb and Lond. Prof.

Bell-John, Miss P. L, B A. Jr. Lectr.

*Geology*

Young, R B, M A. Glas., D Sc Edin Prof

Janisch, Edna P, M Sc. Lectr.

Mendelssohn, E, B Sc

*German, v Dutch**Hebrew*

[Prof.]  
Landau, J L., Ph.D. Vien, M A.

*History*

Macmillan, W. M., M A Ox Prof.

Hodgson, Miss V M L, B A Ox and Cape Lectr.

*Law, v also Bantu Studies*

McKerron, R G, M A. Aberd, B A, B C L Ox Prof

Murray, J C. Prof of Merc. Law

*Assts.*

Schreiner, O. D., B.A. Cape, M.A. Camb.

Coaker, N. E, B.L., LL.B. S A

Russik, H, B A. Cape, M.A, B C L Ox

Wagner, A I, B A. (A G H), LL B. S A. and Lond

Pollak, W., M.A, Ph D. Harvard.

*Mathematics*

[Prof.]  
Dalton, J P., M A, D Sc. St. And.

(also Lectr. in Actuarial Sc.)

Constançon, C., Dip. Ing Zur. Sr. Lectr.

Wood, H E., M Sc. Manc.

Lectr. in Astron. (part time).

Kerrich, J E., B.Sc. Jr. Lectr.

Young, F., B.A. Jr. Lectr.

*Maths., Applied*

[Prof.]

Le May, H., M.A., B Sc. Glas.

*Metallurgy and Assaying*

Stanley, G H., A R.S.M., F.I.C., M I M E, M I M M Prof.

Millin, D, B A. Cape, F.I.C. Sr Lectr.

*Mining and Surveying*

Watermeyer, G A, B A Cape, A R S M. De Beers Prof.

*Music*

Kirby, P. R, M A. Aberd., A R C M. Prof.

Duggan, C. A. O. Lectr.

Paff, W, A R C M, L R A M.

7 Instrs

*Philosophy*

[Prof.]

Hoernlé, R. F. A, M.A, B.Sc Ox. MacCrone, I D, M A Cape, B A. Ox Lectr.

Du Plessis, Hester L, B A Jr Lectr.

*Physics*

Paine, H. H., M.A. Camb., B Sc. Lond and Wales Prof

Evans, G T R, B.Sc. Wales Sr Lectr

Cooper, M A, M Sc. S A. Lectr

Halliday, E C., M.Sc Cape T. Jr. Lectr

*Physiology*

Stammers, A. D., M A. Camb, D Sc. S A. O. Beit Prof.

..... Sr. Lectr.

*Statistics, v. Economics**Zoology*

Fantham, H. B., M.A. Camb., D.Sc Lond, Fell. Univ. Coll. Lond. Prof

van der Horst, C. J., Ph D. Amster. Sr. Lectr.

Paterson, Miss N. F., M.Sc. Lectr.

Schuurman, Miss J. F. M., M.Sc. Jr. Lectr.

**Medicine** (for subjects of first  
2 yrs —Anat., etc , v. *supra*)

*Ethics, Medical*

Heberden, W. S., M.R.C.S. Eng.,  
L.R.C.P. Lond. Lectr.

*Forensic Medicine*

Levin, J. J., M.B., Ch.B. Edin.  
(also (C) in Surg) Sr. Lectr.

*Gynæcology* [Prof.

Grant, W. Gordon, M.D. Aberd.

Gibson, R. W., M.B., Ch.B. Camb.  
Sr. (C).

Te Water, S. K., M.B., Ch.B.  
Edin. (C)

*Medicine*

Williamson, O. K., M.A., M.D.  
Camb, F.R.C.P. Lond. Prof

Girdwood, R. L., M.D., Ch.B.  
Edin. Sr. (C)

Watt, A. H., M.B., C.M., F.R.C.S.  
Edin. Sr (C).

Bloom, A., M.B., Ch.B. Edin,  
D.P.H. Lond. Sr (C).

Balkin, I. J., M.B., Ch.B. Edin  
(C).

Braun, L. I., M.R.C.P., M.D.,  
B.S. Lond (C).

Block, I. J., M.B., Ch.B. Edin.,  
F.R.C.P.S. Glas, F.R.C.S.  
Edin. (C).

Gordon, Mary, M.B., B.S. Durh.  
Cln Tutor.

Heimann, H. L., B.A. Cape, M.D.,  
B.S. Lond, M.R.C.P. Lond  
(C)

Mackenzie, R. P., C.M.G., M.B.,  
C.M. Edin, D.P.H. Camb

Lectr. (Skin Diseases).

Gluckman, I., M.R.C.S. Eng,  
L.R.C.P. Lond

Hon Asst Lectr  
Woolf, E. B., M.R.C.S. Eng,  
L.R.C.P. Lond.

Hon Lectr (Physio-Therapy).

Orenstein, A. J., C.M.G., M.D.  
Philad.

Lectr. (Tropical Dis.).

Porter, Chas., M.D., Ch.B. R.U.I.,  
D.P.H. Camb.

Instr. (Vaccination).

Baumann, E. P., M.D., Ch.B.  
Edin., M.R.C.S., L.R.C.P.

Lectr. (Med. Dis. of  
Children)

Blieden, M., M.D. Penn  
Hon. Asst. Lectr.

(Children's Diseases).

Loeser, H. A., M.D. Zur.  
Lectr. (Acute Infect. Fevers).

Mellé, B. G., B.A. Cape, M.A.,  
B.M., B.Ch. Ox, F.R.C.S.  
Edin (C)

Charlton, R. J. W., M.B., Ch.B.  
Edin Hospital Warden

*Psychiatry*

Dunston, J. T., M.D., B.S. Lond  
Hon Prof.

van Coller, A. S., M.B., Ch.B.  
Glas (C)

Russell, W., M.D., Ch.B. Edin.  
(Hon C)

*Obstetrics*

Abelheim, A., M.D. Kharkoff (C).

Maxwell, W. H., M.A., M.B.  
Camb., M.R.C.S. Eng. (C).

Ryan, Miss R., M.B., B.Ch.  
R.U.I. Tutor.

*Pathology and Bacteriology*

Lister, Sir Spencer, M.R.C.S. Eng.,  
L.R.C.P. Lond. Hon Prof.

Strachan, A. S., M.B., Ch.B. Glas.  
Head of Dept and Sr Lectr

Becker, J. G., M.B. Glas., D.P.H.,  
D.T.M. Liv. Sr. Lectr.

Porter, Annie, D.Sc. Lond.  
Sr. Lectr. (Parasitology).

*Pharmacology* [Prof.

Watt, J. M., M.B., Ch.B. Edin.

Brandwijk, Miss M. G. Jr. Lectr.

*Public Health*

Porter, C., M.D., Ch.B. R.U.I.,  
D.P.H. Camb., LL.D.

Sr Lectr.

(C) = Clinical Lecturer.

*Radiology* [Lectr.  
Steuart, W., M.R.C.S., L.R.C.P.  
Olivier, P. J. Asst Lectr.

*Surgery*, v. also Forensic  
Thomson, G. Ritchie, C.M.G.,  
M.B., C.M. Edin. Prof.  
Brebner, J. W., M.B., Ch.B. Edin.  
Sr (C)

Levin, J. J., M.B., Ch.B. Edin  
Welchman, W., M.B., B.S. Lond.,  
F.R.C.S. Eng. Sr. (C).

Maisels, I., M.B., Ch.B. Edin  
Hon Sr. Lectr. in Urology.  
Mudd, F. B., M.R.C.S., L.R.C.P.

Lectr. (Anæsth.).  
Gluckmann, H., M.R.C.S., L.R.C.P.  
Lectr. (Venereal Dis)

Greenberg, M., M.B., Ch.B.,  
F.R.C.S. Edin Lectr (C)  
Beyers, C. F., B.A. Cape, M.B.,  
B.S. Lond., F.R.C.S. Eng

Lectr. (Surg. Appl Anat),  
Demr (Op Surg) (C)  
Dauth, D. J., M.D., Ch.B. Edin (C)

*Diseases of Children*  
Ross, R. A., M.B., Ch.M. Edin,  
F.R.C.S. Eng Lectr

Douglas, J. A., M.B., Ch.B. Edin  
Hon. Asst Lectr

*Ear, Nose, and Throat*  
Pink, W. L., M.B., B.S. Lond.,  
F.R.C.S. Eng. Lectr.

Campbell, A., M.B., Ch.B., D.P.H.,  
R.C.P.S., F.R.C.S. Edin,  
R.F.P.S. Glas

Hon Asst Lectr  
Andrew, T. F., M.C., M.B., Ch.B.,  
F.R.C.S. Edin.

*Eye* Hon. Clin Lectr  
Brinton, A. G., F.R.C.S. Edin.,  
L.R.C.P. Lectr.

Meyer, R. C. J., B.A. Cape, M.D.,  
F.R.C.S. Edin., D.O. Ox  
Hon. Asst. Lectr.

Baranov, M., M.D., B.S. Lond.,  
L.R.C.P. Lond., M.R.C.S.,  
D.O.M.S. Eng.

Hon. Asst. Lectr.

Hon. Demrs. (Anæsth.):  
Gordon, Mary, M.B., B.S. Durh.  
Weinbrenn, B., M.B., Ch.B. Edin.  
Hall, Greenwood, M.B., Ch.B.  
Durh.

Fouché, F. P., M.B., Ch.B., M.D.  
Edin, F.R.C.S. Eng.  
Clin Tutor.

*Venereal Diseases*, v. *Surgery*

*Dentistry* (v. also Anat.)

*D. Local Anæsthetics*  
Foote, H. J., M.B., Ch.B., L.D.S.  
Edin. Lectr.

*D. Dis of Children*  
Cassel, D., B.A., C.G.H., D.D.S.  
Mich Lectr.

*Orthodontia*  
Braun, M. F., L.D.S., R.C.S. Eng.,  
D.D.S. Penn. Lectr.

*Prosthetics*  
Berry, T. B., L.D.S., R.C.S. Eng.,  
B.Sc. Eng. Cape Lectr

*D. Radiology*  
Denhart, J. E., L.D.S., R.C.P.S.  
Glas, D.D.S. Mich Lectr.

*Operative D. Surgery*  
Hunter, B. Mitchell, L.D.S., R.C.S.  
Edin, D.D.S. Penn.  
Lectr. and Sr. Clin. Lectr.

Other Sr. Clin. Lectrs :  
Ackerman, A. H., D.D.S. Mich.;  
Brampton, D. N., L.D.S.,  
R.C.S. Eng., Breyer, J. H.,  
Tandarts, Utrecht, Cassel,  
D., B.A. Cape, D.D.S. Mich.,  
Coburn, G., D.D.S. Mich.;  
Eccles, B. J., L.D.S., R.C.S.  
Eng, M.R.C.S. Eng, L.R.C.P.  
Lond, Forsyth, G. A., D.D.S.  
Penn; Jenkins, R. L., L.D.S.,  
R.C.S. Eng; Shaw, J. C. M.,  
M.A., B.D.S. Dub; Wium,  
P., Tandarts, Holland, D.D.S.  
Chic

*D. Surgery and Pathology*  
Friel, G., L.D.S. Irel. Lectr.

**ASSOCIATED INSTITUTIONS.** There are several hospitals as well as an Instn. for Med. Research in which students of Med carry out a part of their curriculum.

## GENERAL INFORMATION

Telegraphic address—University, Johannesburg.

The **TRANSVAAL TECHNICAL INSTITUTE**, constituted in 1903, was opened in 1904 and took over at Johannesburg the work of the **S. AFRICAN SCHOOL OF MINES, KIMBERLEY**, which had been founded in 1896. In 1906 its name was changed to "**TRANSVAAL UNIVERSITY COLLEGE**," and in 1908 Arts and Science classes at Pretoria were placed under its control. This arrangement was terminated in 1910, when the Johannesburg part of the institution was incorporated under the name of the **S. African School of Mines and Technology**. Buildings, towards the cost of which the Council of Education, Witwatersrand, contributed £60,000 and Govt. £30,000, were opened in March 1909. In 1913 Commerce (Diploma) courses were established. In 1916 a Witwatersrand University Committee was formed in Johannesburg to promote the establishment of a fully equipped Univ. College financed by the State, as a step towards the formation of a University. In 1917 the School became one of the constituent colleges of the new federal Univ. of S. Africa. In the same year classes in Arts, Pure Science, and Medicine were inaugurated. In Sept. 1920 the institution became the "**University College, Johannesburg**." In 1921 the College was reincorporated as a University with effect from March 1, 1922. The students in 1916 and each of the following years up to 1922 numbered 77, 173, 191, 301, 635, 812, 983. This development was made possible partly by support from the public, including contributions by the Chamber of Mines (£50,000), Standard Bank of S.A., Nat. Bank of S.A., Central Mining and Investment Corporation, and De Beers Cons. Mines, Ltd. (£10,000 each), Sir Otto Beit (£8000), and many others, amounting in all, up to the end of 1922, to over £220,000. The Municipality provided a fine site (100 acres) at Milner Park, a mile from the centre of the town. Expenditure on buildings and lay-out up to June 1928 amounted to £450,000. **LIBRARIES** Central, and several departmental. **MUSEUMS**. Several Departmental

**FACULTIES** : Arts, Sc, Med, Engin, Comm, Law.

**DEGREES** B A, B Sc or B.Mus, 3 (Hons., 4) yrs, M A or M.Sc, 1 yr., Hons. and Thesis, D Litt, D.Phil, LL D, or D Sc., Thesis; B Ed., 2 yrs. (post-grad); M Ed, Thesis; B Com or B Econ, 3 yrs; M Com., Thesis; B.Sc. (Eng), 4 yrs.; M Sc (Eng), Thesis, B Arch, 5 yrs; M Arch, Thesis; LL B, 3 yrs (post-grad); LL.M., Thesis; M.B., Ch.B., 6 yrs, M D or M.S., Thesis and Examn. An alternative course for the B Sc in Mining and Metallurgy provides for employment in the mines of students in their 4th year.

**DIPLOMAS.** Classics, French, Afrikaans, German, Economics, Geography, Philosophy, Archit., Music, Bantu Studies, Public Health, Tropical Medicine and Hygiene, Psychological Medicine, Actuarial Maths. **COURSES** for Teachers' Certifs, Law Certif, Civil Service Law examn., Land Surv. **FEES** from 12 gs. p a (Civil Service Law) to £35 (M B)

**SCHOLARSHIPS** open to Graduates: Chamber of Mines, £250; Union, 2 of £150 each for 3 yrs.; Ainsworth (Mod. Hist.) every 2 yrs., £150 p.a. for 2 yrs.; H. B. Webb Research Gift, £200.

**RESIDENCE.** Hostels for 160 men and 35 women. Fees, £60 p.a.

**UNIV EXTENSION.** Public lectures under joint auspices of Univ. and W.E.A. Discussion circles; afternoon and evening courses for teachers and



others in regular employment, who may by attending them qualify for B.A. degree.

PUBLICATIONS. *Calendar*, *Bantu Studies*; *Umpa* (S.R.C.).

## THE YEAR 1927-28

BENEFACTIONS. Union Government, £71,860 for current expenditure, £36,750 for building, £950 for Bantu Research, £1637 for Bursaries and Scholarships; Johannesburg Municipality Grant, £6000 for general purposes and £5000 for bursaries; other Reef Municipalities, £550 for general purposes and £806 for bursaries; Witwatersrand Council of Education, £1000 for bursaries, £194 for general purposes, Witwatersrand Univ. Committee, derived from public subscriptions, £14,500; bequests and donations, £1390.

RESIGNATIONS. J. McGibbon, Prof. of Obstetrics; A. D. Furner, Sr. Lectr. in Arch.; J. M. Watt, Prof. of Pharmacology.

DEATHS Prof. R. A. Lehfeldt (Economics), J. D. Percy Roberts (Sr. Clin. Lecturer Dentistry), E. A. Willey.

HONORARY DEGREE. *D Sc.*—D. Draper.

STUDENTS (1928). Full-time: total, 1469, including 168 graduates.

DEGREES (1927). B A, 76, M A, 1; B.Sc, 17, M Sc, 2; D.Sc, 1; M.B, Ch.B, 22; B Sc (Eng), 28; B.Arch, 1, B Com, 12; LL.B., 6; B D S, 2

# COLLEGE OF AGRICULTURE, MAURITIUS

PRINCIPAL AND CHAIRMAN OF ADVISORY BOARD—The Hon. H. A. TEMPANY, D Sc Lond., F I C, F C S., Director of Agriculture.

REGISTRAR—M KOENIG, A.Inst P

## LECTURERS

*Agronomy*—The Principal and 2 others      *Physics*—The Registrar.

*Biology and Entomology*—W H. Edwards, D.I.C., F C S, F.E S, and 2 others      *Surveying and Agric Engineering*—R Avice, A R T C

*Botany and Mycology*—E F S Shepherd, B S A. McG      Also Lecturers in Animal Husbandry, Book-keeping, Sugar

*Chemistry*—N Craig, M Sc ; R Lincoln, B.A Camb      Technology, and Veterinary Science

The College is administered as an integral part of the Department of Agriculture of the Colony. The cost of the building (opened Jan. 1925) and equipment was £14,000. Experimental fields and farms cover 60 acres. Laboratories provide accommodation for research in Chemistry, Entomology, Botany, Mycology, Physics, and Sugar Technology. Athletic grounds are attached to the College.

A three-years' course leads to the Diploma of the College. Short courses in the inter-crop period are provided for estate employees and special courses for agricultural and sugar-house chemists. The exams. of the City and Guilds of London Institute in sugar technology are held at the College.

The College year begins in January.

Minimum age for admission, 17. Evidence of general education up to matriculation standard is required.

Tuition fee for British subjects not natives of Mauritius, £20 p a.

## THE YEAR 1928

STUDENTS Full-time, 20. Part-time : total, 4, including 2 graduates

DIPLOMAS awarded (in Agric.), 4.

# THE HEBREW UNIVERSITY, JERUSALEM

PRESIDENT—CHAIM WEIZMANN, Sc.D. Freib., D.Sc. Manc.

CHANCELLOR—JUDAH L. MAGNES, Ph.D. Heid.

TREASURER—NORMAN BENTWICH, M.A. Camb.

REGISTRAR—S. GINZBERG, L ès L, Dipl. Phil. Sorbonne

LIBRARIAN—HUGO BERGMANN, Ph D Prague.

This University (in mandated territory) was opened on April 1, 1925, by Lord Balfour, as a group of Research Institutes. It is provisionally registered under the Law of Societies of Palestine. The language of instruction is Hebrew.

LIBRARY (National and University), 185,000 vols. Includes the Goldzieher collection of books and periodicals on Arabic and Oriental Literature and the recently acquired mathematical library of the late Felix Klein of Göttingen. Publishes quarterly review *Kiryat Sefer*

INSTITUTE OF JEWISH STUDIES (inaugurated Dec. 22, 1924). Chairman of Council—Chief Rabbi Dr. Hertz of London. Representative of the Council in Palestine—Dr. J. L. Magnes. Professors. J. N. Epstein, Ph.D. Berne (Talmudic Philology); J. Klausner, Ph D Heid. (Modern Hebrew Lit); S. Klein, Ph D. (Palestine Research), on leave Lecturers—S. Assaf, Rabbi (Gaonic Period); A. Gulak, dipl. Jur. (Jewish Law); A. Ruppín, Ph.D. (Jewish Sociology); S. Schölem, Ph.D. (Jewish Mysticism); Rabbi M. Segal, M.A. (Jewish Commentators on the Bible), D. Yellin (Hebrew Poetry of the Spanish Period). Preparatory Division—M. Schwabe, Ph D. (Latin and Greek). Field Archaeologist—L. Sukenik, Ph D. Number of students in 1928, 65; auditors, 22. Publications *Annals of the Hebrew Univ.*; *Jewish Studies*.

SCHOOL OF ORIENTAL STUDIES. Arabic section, inaugurated March 1926. Visiting Director, J. Horowitz, Ph D. Berlin, of Frankfurt. Lecturers—H. Baneth, Ph D (Islamic Philosophy), L. Billig, M.A. (Arabic Lit.); L. Mayer, Ph.D. (Islamic Art and Archaeology). Students, 2; auditors, 10. Preparatory Division: S. Gaitein, Ph D, T. Rivlin, Ph.D (Arabic Language and History); auditors, 37 (including students of other Institutes).

CHEMICAL INSTITUTE (opened in 1924). Director—Prof. A. Fodor, Ph.D. (from Halle) Assts.—M. Weizmann, D ès Sc. (Grenoble); M. Bobtelsky, Ph.D. Berne; Miss R. Rivlin, Ph D. (Utrecht), A. Reifenberg, Ph D. (Giessen); M. Fienkel, Ph.D. 5 Junior Research assts. Number of students, 25.

MICROBIOLOGICAL INSTITUTE. Section of Parasitology, established 1924, under S. Adler (M.B., Ch B Leeds, D.T.M. Liverpool). Assts: O. Theodor, Ph.D.; J. Wittenberg, Dr.Vet.

DEPARTMENT OF HYGIENE, established 1926. Director—Prof. J. J. Kligler, Ph.D. Columb. Assts.: R. Reitler, M.D.; A. Geiger, M.D.; L. Ulitzky, M.D.; H. Badenteimee, Ph.D. (Zoology).

INSTITUTE OF PALESTINE NATURAL HISTORY, established 1926, in connexion with the Agric. Experiment Station founded by the Zionist Executive in 1922.

Director—Prof. O. Warburg, Ph.D. (Berlin). Assts—J. Aharoni (Zoology); T. Oppenheim, Dipl. Sc. (Botany); E. Ha-Reubeni, Ph.D. (Biblical Botany); 3 Junior assts.

INSTITUTE OF MATHEMATICS, in course of organization. Visiting Director—Prof. E. Landau, Ph.D. (Goettingen). Asst.—B. Amirà, D. ès Sc.

PUBLICATION. *Yearbook* (in English and Hebrew).

## THE YEAR 1927-28

During the winter term Prof E. Landau, of the Univ. of Gottingen, delivered lectures in Maths., and Prof. T. Mann, of the Hebrew Union College, Cincinnati, lectured on Jewish History. During the summer term Prof. E. Speiser, of the Univ. of Pennsylvania, lectured on "Introduction to Comparative Philology." Lectures were also given by Prof. Evans, of London; M. Emile Vandervelde, of Brussels; Dr. Zollschan, of Karlsbad; Prof. L. Mayer, of Berlin; Prof. Frankel, of Breslau; and Prof. Fischberg, of New York.

# UNIVERSITY OF MALTA

VISITOR—H.E THE GOVERNOR OF MALTA.

PRESIDENT OF THE GENERAL COUNCIL AND RECTOR—Prof. T. AGIUS,  
M A , M D., F.R.Met.S.

SECRETARY—A. F. SCIORTINO.

## PROFESSORS, LECTURERS, ETC.

<i>Anatomy and Histology</i>	<i>Mathematics and Pract Engin.</i>
Busuttil, R, M A , M D Prof	Nixon, W F, B Sc Lond.,
Guha, L, M D. Asst. Prof.	A.R.C.Sc Lond., Wh. Ex
<i>Biology, v Nat Hist</i>	Prof.
<i>Chemistry</i>	<i>Mechanics, Applied, and Drawing</i>
Sultana, A, M D. Prof	Gatt, J L, L S and A. Prof
.....	<i>Medicine and Surgery, v infra</i>
<i>Engineering and Architecture</i>	<i>Natural History</i>
Galea, R V., L S. & A., (also	Borg, John, M A , M D Prof
Lectr in Descr Geom. and	<i>Pathology</i>
Arch Drawing) Prof	Vincenti, R, M D Prof.
<i>English Literature</i> [Prof	Azzopardi, J., M D. Asst Prof.
Fogarty, Owen J., B A (N U I )	<i>Philosophy, v Logic</i>
<i>Italian Literature</i>	<i>Physics</i>
Laurenza, V, D Lit (Naples) Prof.	Borg, S., M.D. Prof.
<i>Latin Literature</i>	<i>Physiology</i>
..... Prof.	Xureb, P, B Sc , M.D. Prof.
<i>Law</i> [Prof.	<i>Political Economy</i>
Vassallo, Most Rev. Can Mons. E.,	..... Prof.
Jur Can. Doc (Canon L)	<i>Theology</i>
Mallia, C, B Litt, LL D (Comm.	Formosa, Most Rev. Can. Mgr. G.,
L) Prof.	B A., D D , J U.D.
Vassallo, E. C, M A , LL D	Prof. of Dogm. T.
(Const and Internat L) Prof	Zammit, Most Rev. Can Mons. C.,
Ganado, E., LL.D. (Civil L) Prof.	D D. Prof. of Moral T.
Randon, L A., B A , LL.D	Callus, Rev. D , O.P.
(Crim. & Science of L) Prof.	Prof. of Holy Script and
Bartolo, A, B Litt, LL D ,	Hebrew.
F R.Hist.S (Hist of Legislatn.	
in England and Malta) Prof.	<b>Medicine</b>
Frendo, P. G., LL.D. (Fiscal Laws,	<i>Forensic M and Toxicology</i>
Statistics and Admn.) Prof.	Hyzler, J., B.Sc., M.D. Prof.
<i>Logic and Philosophy</i>	<i>Hygiene and Preventive M.</i>
Cuschieri, Senator Very Rev. A.,	Bernard, A. V., M B.E., M.D.,
O.C. Prof.	D.P.H. Prof.

<i>Materia M., Pharmacy, and Therap</i>		<i>Midwifery and Gynæcology</i>	
Cassar, I, M D	Prof.	Debono, G, M D	Prof
		Harding, H., M.D.	Asst. Prof.
<i>Medicine</i>		<i>Ophthalmology</i>	
Ferro, E. H., B A, M.D.	Prof	Preziosi, Cont. L, B.Sc, M D.,	
Debono, J E, B Sc, M D.		D.O. Ox.	Prof.
	Asst Prof	<i>Surgery</i>	
<i>Mental Diseases</i>		Debono, P P., M D., D.P.H.,	
Toledo, R M, M A, M D	Prof	F.R.C.S	Prof.
		Casolani, R L, M D	Asst. Prof.

## GENERAL INFORMATION

Founded in 1769 by Grand-Master Fra Emmanuel Pinto de Fonçeca of the Order of St. John under the authority of Pope Clement XIV., the University is lodged in a building erected by the Jesuit Fathers in 1591-93 for a College, whilst its Medical Faculty originated in a School of Anatomy founded in 1674 by Grand-Master Nicola Cottoner in the Great Hospital of the Order, which accommodated 745 patients. The authorities of the University as reconstituted by a Govt. Statute of 1921 are the Visitor, the Rector, the General Council (consisting of the Rector, six Professors, and three members elected by Convocation), six Faculty Councils, and Convocation.

**LIBRARY**, 5000 vols. A public library maintained in connexion with the Univ. contains over 100,000 vols. and is rich in MSS and rare editions of great historical interest. **MUSEUMS** Nat. Hist and Archæol. **OBSERVATORY**, full meteorol. equipment and seismograph. **BOTANICAL GARDEN**. **HOSPITALS**, available for Clinics: general (300 beds) and several special; Leper Asylum (100); lunatic (800); aged poor (800).

**FACULTIES** Literature, Science, Engineering and Architecture, Theology, Law, Medicine.

**MATRICULATION** involves passing an examn in 5 subjects, including English, Italian, Maths, and, except for Engineering courses, Latin; for Med students proposing to register in England, 6 subjects, including also Hist

**DEGREES, ETC.** B A, B Sc, B E and A, M D, LL D, D D, B.L. Can Diplomas of Notary Public, Legal Procurator, Pharmacist and Apothecary, Dental Surgeon, Midwife.

**SCHOLARSHIPS FOR GRADUATES** £120, one each in Theol., Law, Engin., and Med (Travelling Scholps.). £50, one each in Theol., Law, Med One of £120 awarded every 6 years in the faculty of Med

## THE YEAR 1928

**STUDENTS.** Full-time total, 164.

# THE UNIVERSITIES OF INDIA

UNIVERSITIES were first established in British India as a result of the great parliamentary inquiry into the condition of India which preceded the confirmation of the Company's Charter in 1853. It was resolved to create a properly articulated system of education from the Primary School to the Univ. The London Univ., at that time a purely examining body, which admitted to its tests only the students trained in affiliated institutions—the latest device of educational statesmanship—was taken as a model. "It had been suggested, in London, by conditions which resembled those of Bengal . . . Its defects were not yet apparent, though it was to be profoundly modified by London itself four years later. It had the advantage of costing very little. It enabled all the existing collegiate institutions, whether Government or missionary, to be worked into the same scheme, and promised to provide a quite impartial mode of testing the qualifications of students for Government service. Above all, it gave freedom to the non-Government Colleges—all, at that date, mission colleges—to carry on their work in their own way, and offered them help from public funds for the secular side of their work" (*Report of the Calcutta Univ. Commission, 1917-19*). In pursuance of this policy, Univs. were founded in 1857 at Calcutta, Bombay, and Madras. The framers of the policy, while contemplating that the ordinary subjects of study should be dealt with by the Colleges, did not intend that the Univs should have no teaching functions, but in point of fact they have until recently concerned themselves solely with examinations. In 1882 and 1887 the Univs. of the Panjab and Allahabad were established on similar lines. A Commission was appointed in 1902 to examine the working of the system, and the Univs. Act of 1904 was designed to give effect to its recommendations as to reorganization of the government of the Univs., their assumption of teaching functions, and more effective supervision by them of the Colleges, as well as more exacting conditions of affiliation. Univ. Professorships, Readerships, and Lectureships have accordingly been constituted in the above-named Univs., but mainly for advanced (post-graduate) courses and, except in Calcutta, only on a very small scale. Benares (Hindu), Mysore, and Patna Univs. were established in 1916 and 1917. The Osmania Univ., Hyderabad, Deccan, was also established in 1917, though actual tuition began in Aug. 1919.

The foundation, structure, aims and efficiency in working of institutions for higher education in India have been subjected to exhaustive re-examination by the Calcutta Univ. Commission, 1917-19. In the Univ. of Calcutta itself but little progress has been made towards giving effect to the far-reaching and fundamental changes recommended by this body, but their recommendations have to a great extent determined the lines on which were established in 1920 and the two following years the unitary, teaching, and residential Univs. of Aligarh, Dacca, Delhi, Lucknow, Rangoon, and on which the Univ. of

Allahabad was reorganized in 1921. The Nagpur Univ. was established by legislation in 1923, and in the same year the Univ. of Madras was reorganized on lines somewhat similar to those of the Univ. of Allahabad. Recently the constitution of the Rangoon Univ. has been somewhat altered by an Act of the provincial legislature. In 1926 Acts of the United Provinces and Madras Legislative Councils provided for the establishment of affiliating Universities at Agra and at Bezwada (the Andhra University). These Univs. are now established, but the question of the permanent headquarters of Andhra Univ. is still unsettled. Bombay Univ. was reorganized in 1928, but the new Act has not yet come into force. The report of the Bombay Univ. Reform Committee (published 1925) recommends the establishment of a Univ. at Poona.

**CONSTITUTION.** (a) The Univs. of Calcutta, Bombay, and the Panjab are still governed by the constitution framed under the Act of 1904. The Senate, comprising the (official) Chancellor, the Vice-Chancellor, and Fellows, constitute the Body Corporate of the Univ., the executive government being vested in a Syndicate of from 9 to 17 members, including the Vice-Chancellor and Director(s) of Public Instruction, and members (largely College teachers) elected by the Senate or the Faculties. The constitution and abolition of Faculties rests with the Senate. The Academic Council recently instituted by the Panjab Univ. has been invested with important powers subject to the general control of the Senate, the revision of the Constitution of the Senate and the Syndicate is, at present, engaging the attention of the governing authorities. In its application to Calcutta the Act of 1904 is modified by Act VII of 1921.

(b) The new Univs. have a constitution modelled generally on that recommended for Calcutta by the Calcutta Univ. Commission:—(1) A large body called the Court, on which are represented the chief interests of the community either by election or by nomination, and including a number of ex-officio members, makes statutes and makes recommendations on the financial accounts and the annual report submitted by the Executive Council, (2) the Executive Council of some 15-20 members, elected partly by the Court, partly by the Academic Council, and including ex-officio members, is the executive authority in regard to finance and University appointments, and exercises all residual powers, (3) the Academic Council, which consists almost entirely of University teachers, is responsible for the regulation and maintenance of standards of education and examination within the Univ., and for the initiation of all changes in academic matters. The executive officers of the new Univs. are, as under the older constitution, the Chancellor, the Vice-Chancellor, and the Registrar, but the Governor-General is now introduced as the Visitor or Lord Rector, with powers of inspection. At Rangoon the three constituent bodies above mentioned are named (1) Council, (2) Executive Committee, and (3) Senate.

**ADMISSION TO THE UNIVERSITIES.** Most of the Indian Univs. admit students who have passed the Final Examn. of the High Schools, and 4 years are spent at a College affiliated to the Univ. before the student is qualified to sit for the Bachelor's Degree Examn., namely, 2 years before



the Intermediate Examn. and 2 after. The Univs. of Allahabad, Aligarh, Dacca, and Lucknow regard the pre-Intermediate years not as part of, but as preliminary to, University study. The Univ. of Mysore, which until recently allowed a student to appear for the Bachelor's Degree Examn 3 years after passing the Entrance Examn, now requires a 4 years' course as in the case of the other Univs in India.

Applications for AFFILIATION are submitted by the Syndicate, if satisfied as to the managing agency, teaching staff, provision for residence of students, equipment, financial resources, suitability of fees, etc., to Government. If granted, the courses in respect of which the College is affiliated are specified. Affiliated Colleges must comply with requisitions by the Syndicate for information, submit themselves to inspection under the Syndicate's orders, and take such action as may be ordered consequent upon such inspections. In Calcutta and Panjab Univs. affiliation questions are dealt with by the Senate.

TERMS Univ. examns. are, with few exceptions, held between March and June. Admissions are made as a rule in June or July, though in many cases regular work does not commence till Sept. or Oct.

DEGREE COURSES. In *Arts and Science* a 2 yrs.' course leading to an Intermediate examn. is followed by a further 2 yrs.' course for the Degree. English is a compulsory subject, except in the B Sc course of Allahabad, Bombay, Calcutta, and Patna. All, Lucknow, Madras, and Panjab Univs give Honours degrees (All in Science, Lucknow, Madras, and Panjab in Arts and in Science) requiring an additional year of study. The Intermed Courses are under the control of the Univs. except at Dacca, Allahabad, Agra, and Lucknow, where they are controlled by Boards of Intermed Educn.

*Commerce.* The B.Com course covers ordinarily 2 yrs after passing the Intermediate examn in Arts.

*Law.* The LL B (or B L) course covers 2 yrs. (Calc.—ordinarily 3 yrs) after graduating in Arts or Science.

*Medicine.* The M B and B S course covers 5 yrs. (Bom.—4½ yrs., Calc and Rangoon—6 yrs), starting from the Intermediate examn in Arts or Science (Calc—in Science) L M and S. course (Rangoon), 5 yrs

*Teaching* The B T. (All and Mad—L T) courses cover 1 yr. after graduation in Arts or Science. Calc gives a L T., obtainable by 2 yrs of study after passing the Intermed examn in Arts or Sc. Bombay requires either 3 yrs' experience or 2 terms at a Training College after graduation, plus 1 yr.'s experience thereafter, Patna, 1 yr. of study 2 yrs after passing the Intermed examn in Arts or Science. The Lucknow Diploma in Teaching, for women only, requires a 1 yr.'s course after graduation in Arts or Science, as does the Rangoon diploma.

*Engineering.* For the B.E., Bombay gives a 3 yrs.', Benares, Calcutta, Madras, Mysore, Patna, and Rangoon (post-intermediate) a 4 yrs', course.

HIGHER DEGREES. The M A. or M.Sc. can be taken by bachelors

of 2 yrs.' standing ; the M.Sc. Mad. by B Sc. (Hons.) of 1 yr.'s standing ; the Ph.D. Mad. by B.A. (Hons) or M A. of 3 yrs.' standing , the D.Litt. of All. and Ph.D. of Calc. by M.A. of 3 yrs.' standing ; the D.Lit. or D Sc. of Panj. by M.A. or M Sc after 2 yrs. of further advanced study , the D Sc. of All. by M.Sc of 3 yrs ' standing ; the D Sc of Calc or Mad. by M Sc of 3 yrs ' standing. A degree of M.Com of Bombay can be taken by B Com of 2 yrs.' standing The examination for the Bombay diploma in Ophthalmology may be taken by L M and S or M B , B S of 1 yr 's standing

The LL.M of All and Bom , the M.L. of Mad., and the LL.M. of Panj. may be taken by LL B or B.L of 2 yrs.' standing, the M L. of Calc or Patna at any time after taking the B L , the LL M of Delhi by LL.B. of 3 yrs ' standing The LL D (or D L) is open to LL M (or M L) after 5 yrs (Calc 1 yr) of practice

The M D. (and in Calc. M O) can be taken by medical graduates after experience (Luck and Panj 4 yrs., Calc. and Mad 3 yrs , Bom 5 yrs.) in the practice of their profession or hospital practice (Luck. and Panj. 2 or 3 yrs , Mad and Calc 1 or 2 yrs , Bom 1 or 2 yrs , in addition to professional practice) The M S qualifications are similar, but in Calcutta both hospl and professional practice are required.

**STATUS OF THE NEW UNIVERSITIES.** The Univs. of Aligarh, Benares, Dacca, Delhi, and Patna have been incorporated by Acts of the Indian Legislature, and of Andhra, Agra, Lucknow, and Rangoon by those of provincial legislatures Their degrees and examns are recognized by the Govt of India to be equal in value to those of the older Univs for the purpose of admission to public services.

Mysore and Osmania were established by local legislation in Indian States, and are not within the jurisdiction of the Govt. of India. The degrees of Mysore have been recognized by the Univs. of Bombay, Calcutta, the Panjab, and Madras, and most of the new Universities, and by the Govt. of India. Osmania degrees have been recognized by the Govt. of India as equivalent to those of the Univs. established by law in India

Professor Karve's scheme for an Indian Univ. for women with headquarters at Poona has organized there, and, through affiliated institutions, elsewhere, instruction through the Indian vernacular languages adapted to the special needs of women It is on entirely independent lines

**NUMBER OF STUDENTS** in March 1927 in the 309 Arts and Professional (including 93 Intermediate and 2nd Grade) Colleges was 82,866, including 2262 women

**RESIDENCE.** One of the recommendations of the Commission of 1902 was that much closer attention should be given to the conditions under which students live and work, and very large sums have since been spent in providing hostels and otherwise improving the conditions of student life. In 1926-27 some 30,580 students (including 887 women) of Arts and Professional Colleges were accommodated in approved hostels or boarding-houses.

**CONFERENCES.** In April 1920 a Committee was formed for drafting an outline of the functions and constitution of an Assocn. of Indian Univs. The project was further advanced at the Congress of Universities of the British Empire at Oxford in July 1921, and at a Conference of Indian Universities held at Simla in May 1924. In accordance with a resolution passed by the Simla Conference, an **INTER-UNIVERSITY BOARD** has been formed whose present headquarters are at Cawnpore, the Secretary of the Board being P Seshadri, M A, Principal and Prof. of English, Sanatoma Dharma College, Cawnpore. The chairman for the year is Prof A C Woolner, C I E., Dean of Univ Instructn, Lahore. The Inter-Univ Board meets annually at some Univ centre. Another conference of Indian Univs, on the lines of the conference held in Simla in 1924, is to be held in Delhi in the autumn of 1929. The Board publishes a Handbook of Indian Univs.

The **VICEROY'S GOLD MEDAL**, instituted in 1926 by Lord Irwin, is open for competition, annually, to undergraduates of any Univ. incorporated by law in British India. It is awarded for the best essay on some practical problem of the day.

**INDIAN STUDENTS AT THE HOME UNIVERSITIES.** The Education Department of the Office of the High Commissioner for India, 42 Grosvenor Gardens, London, S.W 1, furnishes information and advice on educational and kindred matters to Indian students who come to this country to complete or supplement their education. The Hostel at 21 Cromwell Road, South Kensington, S.W 7, serves as a centre and meeting-place for Indian students and as a temporary residence for new arrivals. There are Local Advisers at the University of Manchester (J K Wood, D Sc, College of Technology, Whitworth Street), and at Glasgow (R M. Brown, Ph D., B Sc, M I M E, Engineering Department, The University). At Edinburgh J. E. Mackenzie, Ph D, D.Sc. (King's Buildings, the University) is the University's Adviser to Indian students. At Oxford Indian students may secure information and advice from H S Williamson, M A, Indian Institute, Broad Street, Secretary to the Delegacy for Oriental Students, and at Cambridge, from W S Thatcher, M A, 22 Fitzwilliam Street, Secretary to the Inter-Collegiate Indian Students Committee.

Indian students who propose to proceed abroad for further study are strongly advised to consult the University Bureau or Advisory Committee of their Province, from whom they can obtain full information about British and foreign universities. The names and addresses of the secretaries are as follows: Ajmere—R Littlehales, C.I.E., M.A., Superintendent of Education, Delhi and Ajmere-Merwara, and Secretary, Indian Students' Advisory Board, Rajputana, Delhi; Allahabad—P. N Sapru, M A, LL B, Barr.-at-Law, Indian Students' Advisory Committee, The University, Allahabad; Bombay—D J Wadia, Univ. Information Bureau, University Building, Fort, Bombay; Calcutta—Prof. S N Das Gupta, M A, Ph D, Univ. Students' Information Bureau, The University, Calcutta; Dacca—M. Hasan, M.A. (Cal.), B A. (Oxon), Univ. Students' Information Bureau, Dacca, Bengal; Delhi—S. N. Mukarji, M A, Indian Students' Advisory Committee,

St. Stephen's College, Delhi; Gauhati—J Borooah, Barr.-at-Law, Indian Students' Advisory Committee, Gauhati, Assam; Lahore—A. Yusuf Ali, C B E., M A., LL M, Barr -at-Law, Punjab University Foreign Information Bureau, Lahore, Madras—S J. Theodore, M A, B.Litt., B.D, Univ Students' Information Bureau, College House, Esplanade, Madras, Mysore—N S Subba Rao, M A, Barr -at-Law, Univ Students' Information Bureau, University of Mysore; Nagpur—Umawar Misra, M.A., LL B, Univ. Information Bureau, Nagpur University, Nagpur; Patna—Sri Narayanan Sahay, B A, Barr -at-Law, Univ Students' Information Bureau, Patna, Bihar and Orissa

The High Commissioner for India is prepared at the request of parents and guardians in India to make arrangements for the education in Europe of a limited number of Indian students, for the supervision of their studies and personal welfare, and the administration of funds remitted to him for the purpose. The Secretary to the Oriental Delegacy at Oxford, the Secretary to the Inter-Collegiate Indian Students Committee at Cambridge, the University Adviser at Edinburgh, and the Local Adviser to Indian Students at Manchester and Glasgow, act on behalf of the High Commissioner in the case of students proposing to study at those centres. Inquiries may be addressed either direct to the addresses given above or through the Office of the High Commissioner for India, Education Department. The Department publishes annually the *Handbook for Indian Students—a Guide to the Facilities for University and Professional Studies and Training in the United Kingdom*. An annual report on the work of the Department is also published, copies of which can be obtained from the office of the High Commissioner or through the agents for the sale of Government of India publications.

The Hyderabad Government has a Scholarship Committee to regulate the grant of scholarships and give necessary information to students proceeding out of India, and has a special paid guardian for Hyderabad students (E A Seaton, Tyrrell's Wood, Leatherhead, Surrey) to look after and report about their progress whilst in Europe.

# AGRA UNIVERSITY

VISITOR—THE GOVERNOR-GENERAL.

CHANCELLOR—THE GOVERNOR OF THE UNITED PROVINCES

VICE-CHANCELLOR—A W DAVIES, M A

REGISTRAR—PANDIT S S. SHARMA, M A

Act VIII. of 1926 of the United Provinces Legislature, which received the assent of the Governor-General on Oct. 20, 1926, provides for the establishment of a university "for the purpose of affiliating the colleges associated with the University of Allahabad . . ." so as to set it free to function as a unitary, teaching, and residential institution. It empowers the Agra University to affiliate colleges in the United Provinces, Rajputana, Central India, and Gwalior, except within the limits of the Universities of Allahabad and Lucknow, or within a radius of ten miles from the Benares Hindu University or from the Aligarh Muslim University. To supplement the work in affiliated colleges the University may institute teaching posts at selected centres.

Four categories of persons are to be eligible, subject to prescribed conditions, for degrees and other academic distinctions (a) candidates who pass the University's examinations after pursuing an approved course at an affiliated college, (b) teachers who pass the University's examinations; (c) research workers; (d) women who have carried on private study. Lectures and instruction may be provided by the University for, and diplomas may be granted to, persons other than students of an affiliated college.

The supreme governing body of the University is the Senate, the other principal authorities being the Executive Council, Academic Board, Board of Inspection, and Faculties of Arts, Science, Law, and Commerce. The Vice-Chancellor, an honorary officer elected by the Senate, is the principal executive and academic officer.

Students are not eligible for admission to a degree course unless they have passed the Intermediate Examination of the Board of High School and Intermediate Education of the United Provinces, or of an Indian University incorporated by law, or an equivalent examination.

The Act came into force on July 1, 1927, and all the constituent bodies of the Univ. have been formed. The Univ. held its first examns. in 1928

The following 14 Colleges hitherto associated with the Univ. of Allahabad have now been affiliated to Agra.

## AFFILIATED COLLEGES

[M.A., etc., after name of College = teaching up to M.A., etc., standard.]

AGRA COLLEGE. M.A.; M.Sc.; LL.B.; B.Com. Principal and Prof. of *English Lit*—F. J. Fielden, M.A. Camb. and Lond.

AGRA, *St. John's College*. M A, in all subjects; B Com; M.Sc. in Maths., Physics, Chem., Botany, and Zoology; LL.B. Under the general control of the Church Missionary Society. Admits non-Christians, but is especially for Christians. Principal and Prof. of English—A. W. Davies, M.A. Ox. Vice-Principal and Prof. of Philos. and Logic—T. D. Sully, B.A. Ox.

**AJMER, Govt. College.** B.A. ; B.Sc. in Maths., Physics, and Chem. Principal—A. Miller, M.A. St. And.

**BAREILLY COLLEGE.** B.A. and B.Sc. Principal—W. Owens, M.B.E., M.A. Vice-Principal—A. C. Dutt, M.A. All., M.A. Luck., M.R.A.S. Lond.

**CAWNPORE, Christ Church College.** M.A., B.A. Principal—S. C. Chatterji, M.A.

**CAWNPORE, Dayanand Anglo-Vedic College.** B.A., B.Sc., LL.B., B.Com. Principal—L. Diwan Chand, M.A.

**CAWNPORE, Sanatan Dharma College of Commerce.** B.A., M.A., and B.Com. Principal—P. Seshadri, M.A.

**GORAKHPUR, St. Andrew's College.** B.A. Principal—A. C. Pelly, M.A. Camb.

**GWALIOR, Victoria College.** M.A., B.A. ; B.Sc. Entirely supported by the State. Principal—H. M. Bull, M.A. Camb. Vice-Principal—H. F. Manley, M.A. Camb.

**INDORE, Christian College.** M.A. in Philos. Principal—R. A. King, M.A. Manit., B.D. Edin., D.D. Tor.

**INDORE, Holkar College.** M.A., B.A. ; M.Sc., B.Sc. ; LL.B. Maintained by the State. Principal—P. Basu, M.A., Ph.D., B.L. Vice-Principal—C. A. Dobson, B.A. All.

**JAIPUR, Maharaja's College.** M.A. ; B.Sc. Maintained by the State. Principal—P. L. Mathur, M.A. Vice-Principal—Nalininath Roy, M.A. (Cal.), E.E. N.Y.

**JODHPUR, Jaswant College.** B.A. Principal—A. P. Cox, M.A., I.E.S. Vice-Principal—P. P. Shahani, M.A. Bom.

**MEERUT COLLEGE.** M.A. ; B.Sc. ; LL.B. Principal—Lt.-Col. T. F. O'Donnell, B.A. R.U.I.

## THE YEAR 1927-28

**RESIGNATIONS.** S. P. Bhargava, Principal, S.D. Coll. of Commerce, Cawnpore ; Rai Sahib N. K. Ray, Principal, Maharaja's College, Jaipur ; E. C. E. Hemstead, Principal, Bareilly Coll.

**STUDENTS.** Full-time, 1914.

**DEGREES.** B.A., 348 ; M.A., 88 ; B.Sc., 119 ; M.Sc., 21 ; LL.B., 95 ; B.Com., 64.

# ALIGARH MUSLIM UNIVERSITY

LORD RECTOR—H E THE GOVERNOR OF INDIA IN COUNCIL

CHANCELLOR—HER HIGHNESS NAWAB SULTAN JEHAN BEGUM OF  
BHOPAL, G.C.S.I, G.C.I.E, C.I, G.B.E.

PRO-CHANCELLOR—HIS HIGHNESS AGA SIR SULTAN MOHAMED SHAH  
AGA KHAN, G.C.S.I, G.C.I.E.

VICE-CHANCELLOR—THE HON'BLE NAWAB SIR MOHAMED MUZZAMI-  
LULLAH KHAN, K B, K C I E, O B.E.

PRO-VICE-CHANCELLOR—M M SHARIF, B A Cantab (officiating).

TREASURER—SHAIKH ABDULLAH, B A, LL B, M L.C

REGISTRAR—S. SAJJAD HYDER, B A.

LIBRARIAN—MOHAMED HABIB, B.A Ox, Barr -at-Law

## TEACHING STAFF

### *Arabic*

Tritton, A S., M A. Ox, D Litt.  
Edin. Prof \*

Memon, Abdul Aziz Reader.

### *Botany*

Hasan, Syed Hadı, B Sc Bom,  
B A Camb. Hon Reader.\*

Rafiq Ahmad, M Sc Lectr.  
ı Demr.

### *Chemistry*

Haider, M., M A Camb, B A All,  
B.Sc Lond, Barr -at-Law

Prof.  
Mansuri, Q Ali, M A M Sc Camb,  
Ph D Gott Prof.\*

Bakhsh, A., M.A, B Sc All.  
Reader.

Abdul Aziz, B Sc. All.  
Lectr. (Applied Chem)

Ali, B., B.Sc All, M Sc Lectr.  
Farooq, O., M.Sc. Demr.

### *Economics*

[Prof \*  
Hyder, L. K., B.A. All. and  
Camb, Ph D Heid, M L A.

Ahmad Mukhtar, M A Panj and  
Alig Lectr.

Shafi, S. M, B Sc Lond, Barr -at-  
Law Reader.

Uddin, S M, M A. Lectr.

### *Education*

..... Prof.  
Rahman, Habibur, M.A., L T.

All Lectr \*  
Sayyidain, Ghulam, M Ed Leeds,  
B A Reader.\*

Husain, Tajammul, B T Panj,  
M A Lectr.

Siddiqi, W. H, B A., L.T. Lectr.

### *English*

Firebrace, R, M A Ox. Prof.\*  
Inamullah-Khan, M.A. Calc.

Reader.  
Abdur-Rasid, Pirzada, M.A. Panj.

Lectr.  
Husain, Syed M., M.A. Lectr.

Hamid Ali, M., M.A. Lectr.  
Sarwar, G., M.A. Panj. Lectr.

\* Chairman of Dept.

*Geography*

Dann, E. W., M A Ox., F.R.G.S. Prof.\*  
 Jalaluddin, Q, F.R.G.S. Lectr.

*History and Polit. Sc*

Haleem, A. B A, B A Ox Prof.\*  
 Habib, Mohd, B.A. Ox. Prof  
 Jalaluddin, K M. Lectr.  
 Ali, N, M.A All Lectr

*Law*

Ali Naqi, Syed, B A. Reader.  
 Khaliq, Abdul, B A, LL B Reader.\*  
 Abul-Hasan, Barr.-at-Law Reader.

Ishaq, M, B A Camb, Barr.-at-Law Lectr

*Mathematics*

Kureishy, A M., M A All Hon. Reader \*  
 Faruq, M, M Sc All. Lectr  
 Osman, H M, M A Lectr

*Persian*

Hamid-uddin-Khan Haji, M A All. Reader \*  
 Hasan, Syed H., B A Camb, B Sc Prof  
 Siddiqi, R A, M.A All. Lectr

*Philosophy*

Sharif, M M., B.A. Camb. Prof

Zafarul-Hasan, Syed, M A All, Ph D Camb. and Erlangen, D Phil Prof \*  
 Bharat Ram, M A, LL B. Lectr.

*Physics*

Murad, F D., B A, M.Sc. Panj. Reader \*  
 Abdul Jalil, Syed, M Sc. All Lectr  
 Haq, E, B.Sc Lectr.  
 i Demr.

*Theology*

Abu Bakr, Md. M Shis Dean Sunni  
 Yusuf Husain, Nawfi M Dean Shia  
 Ashraf, Suleiman Haji (Islamic Studies) Reader \*  
 Husain Faruqi, A Lectr (Sunni Theol.)

*Sanskrit* [Hon. Reader \*]

Sarup Shastri, Pandit Ram [Reader.\*]

*Urdu*

Sajjad Hyder, Syed, B A  
 Siddiqi, R. A., M.A. All. Lectr.

*Zoology, v. also Botany*

Butt, Ataullah, M.D Berlin, M B, B S. Panj Reader \*  
 Mohammad Sharif, M Sc Lectr  
 Ali, E, M Sc Lectr.  
 i Demr.

\* Chairman of Dept.

## GENERAL INFORMATION

The Mahomedan Anglo-Oriental College, founded in 1875, became, under the Aligarh Muslim University Act of 1920, a unitary residential University, with Univ. School and Intermediate College attached as separate institutions. The Univ. receives Rs. 1,25,000 annually from the Govt. of India, Rs. 64,000 from the Local Govt., Rs. 36,000 from the Nizam of Hyderabad, and contributions from other Indian States. Although the governing body is composed of Mahomedans, and special attention is paid to Muslim Theology, it is open to all, without distinction of sex, race, creed, or class. In the grounds, comprising several square miles, are halls and hostels sufficient for the accommodation of all the students and some of the staff. LIBRARY, 28,000 vols., besides a collection of MSS. on Oriental Lit. LABORATORIES: Physics, Chem., Botany and Zoology.

The INTERMEDIATE COLLEGE prepares for the High School and Intermediate Examns., the latter being the admission examn. for the Univ. The Muslim



UNIV. SCHOOL is a feeder to the Intermediate College and a practising school for the TRAINING COLLEGE.

COURSES. For students who have passed the Intermediate examn. of an Indian Univ. : two-year courses for the B.A. or B.Sc. Courses leading to M.A., M.Sc., and LL.B. degrees are also provided. FEES : for Tuition, Rs. 8 to Rs. 15 p.m. ; Board and residence about Rs. 20 p.m.

Numerous SCHOLARSHIPS FOR GRADUATES, enabling them to proceed to higher degrees, are awarded. One of Rs. 75 per month for research in Arabic, open to M.A. Two fellowships, Rs. 75 p.m. for 2 yrs., for research in Science and Arts respectively. There is a loan fund for helping poor students.

### THE YEAR 1927-28

NEW BUILDINGS. One new Hostel.

STUDENTS. Full-time : total, 1128, including 474 graduates.

DEGREES. B.A., 216 ; M.A., 59 ; B.Sc., 34 ; M.Sc., 5 ; LL.B., 100 ; B.T., 48.

# UNIVERSITY OF ALLAHABAD

VISITOR—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE UNITED PROVINCES OF AGRA AND OUDH.

VICE-CHANCELLOR AND CHAIRMAN OF THE COURT AND ACADEMIC COUNCIL—Mahamahopadhyaya GANGANATHA JHA, M A , D Litt , LL D , Vidya Sagar

PROCTOR—S K RUDRA, M A

TREASURER—RAI BAHADUR PANDIT KANHAIYA LAL, M A , LL B.

REGISTRAR—J. M. DAVID, B A.

LIBRARIAN—BENI PRASAD, M A , Ph D.

## PROFESSORS, LECTURERS, ETC.

*Arabic and Persian* [Reader  
Ali Namī, Syed Mohd., M A

Lectrs. .

Ali, Syed Ishaq, C T , M.F  
Zubaid Ahmad, M. G , M A.  
Mohd Naimur Rahman, M A  
Majd Uddin, Syed, M A.

*Botany*

Mitter, J. H , M A , B Sc. Panj ,  
Ph.D Camb. Reader  
Ranjan, S , M Sc Camb Reader  
Saksena, R K., M Sc Lectr  
Srivastana, G D , M Sc Lectr  
1 part-time teacher.  
2 Demrs

*Chemistry*

Dhar, N. R , M.Sc. Calc., D Sc  
Lond., I E.S. Prof  
Deb, S. C , M.A. Reader  
Chatterji, K. P , M Sc. Reader  
Dutt, S B , D Sc. Lond. Reader  
Taimin, I. K , M.Sc. Lectr.  
5 Demrs.

*Commerce*

Ghosh, M. K , M A., B.Com.  
Lond. Reader.  
Chowdhury, R. C., M.Sc. Lectr.

Dubey, R N , B Com Lectr  
Sapru, P N , M A , LL B , Barr -  
at-Law

Hon Teacher (Admin )

*Economics*

Thompson, C D , M A Reader  
Rudra, S K., M A Camb. Reader.

Karwal, G D , M A Panj. Lectr.  
Bhatnagar, B G , M.A Lectr  
Jain, L C , M A , LL B , Ph D.

Lectr  
Dubey, Daya Shankar, M A , LL B.  
Lectr.  
Mehta, J K , M.A. Lectr  
Uthap, Miss M , M A. Lectr

*English*

[Prof.

Dunn, S G , M.A. Ox , I E.S.  
Jha, A N., M A. Reader.  
Pande, S. A., M.A., LL B Reader.  
Deb, S. C , M.A Reader.  
Ojha, Damri, M.A., LL.B. Lectr.  
Sircar, K. M , M.A., M.Sc. Lectr.  
Misra, S. N., M.A., LL.B. Lectr.  
Gupta, L. D , M A Lectr.  
Dastur, P. E., M.A. Lectr.  
Mehrotra, K. K , M A. Lectr.  
Bhandarkar, Miss V., M A Lectr.  
2 part-time Teachers

<i>Hindi</i>		Mukerji, N. C , M.A.	Lectr.
Varma, D., M.A.	Lectr.	Kaul, R. N., M.A.	Lectr.
Shukla, D. P., B.A.	Lectr.	Haldar, Miss A L , M A.	Lectr.
<i>History</i>		<i>Physics</i>	[Prof.
Khan, S. A., M A., Litt.D.	Prof.	Saha, M. N., D Sc. Calc.,	F.R.S.
Tripathi, R. P , M A , D Sc		Bhargava, S. R., M.Sc.	Reader.
	Reader.	Ghosh, R. N., M.Sc.	Lectr.
Prasad, Ishwari, M.A , LL.B.,		Deodhar, G B., M Sc	Lectr
D Litt	Reader	4 Demrs	
Parmanand, M A.	Lectr	<i>Political Science</i>	
Saxena, B. P., M.A.	Lectr	Prasad, Beni, M A , Ph D ,	D.Sc.
Prasad, Bisheshwar, M A.	Lectr.		Reader.
Chatterji, G. S., M.A.	Lectr.	Ahmad, I , M A	Lectr
Seth, Miss S , M A	Lectr	1 part-time Teacher	
1 part-time Teacher			
<i>Law</i>		<i>Sanskrit</i>	
Weir, J. C , B.A , LL.D.	Dub ,	Acharya, P. K., M.A. Calc.,	Ph D ,
Barr -at-Law, K C.	Prof.	D Litt Lond , I E.S	Prof
Chaudhri, S. C , M A Calc , LL.B.		Saksena, B. R., M.A.	Lectr.
	Reader.	Misra, Umesh, M.A.	Lectr.
Jung, M. U. S., M A., LL D , Barr -		Chatterji, K. C., M A.	Lectr.
at-Law	Reader	Shastri, R M , M.A., M O L	Lectr.
<i>Mathematics</i>		Adhikari, Miss Asha, M A.	Lectr
Banerji, A. C , M Sc. Calc , B A		<i>Urdu</i>	
Camb , I.E.S.	Reader	Zamin Ali, Syed, M A.	Lectr.
Prasad, Gorakh, D.Sc	Edin	Syed, M H., B A , L T	Lectr.
	Reader		
Srivastava, P. L , M.A , Ph D.		<i>Zoology</i>	[Reader.
	Lectr	Bhattacharya, D R , Ph D , D.Sc.	
Prasad, Badri Nath, M Sc	Lectr.	Mehra, H. R., Ph.D. Camb.	
Tiwari, S G , M A	Lectr.		Reader.
Piari Mohan, M Sc	Lectr	Das, R. S , M Sc	Lectr.
<i>Philosophy</i>		Varma, S C , M.Sc	Lectr.
Ranade, R D , M A	Prof	Datta, S. K , M Sc	Lectr.
Mukerji, A C , M A.	Reader	2 Demrs.	

## COLLEGES OF THE UNIVERSITY

EWING CHRISTIAN COLLEGE, Allahabad (American Presbyterian Mission). Principal, and Prof. of English—C. A. R. Janvier, M.A. Princeton, D.D. Other Professors : B. Simlai, M.A. Luck (English) , N. C Mukerji, M.A. Calc. (English and Philos.) ; H. T. Bose, M.A. Calc. (Philos.) ; Saraswati Prasad, M.A. (Econ.) , Anwarul Hak, M.A. (Persian) ; F. J. Collins, M.A. Wooster (Hist.) ; R. K. Shukla (Sans.) ; K. C. Sinha, M.A. (Hist.) .

KAYASTHA PATHSHALA UNIVERSITY COLLEGE, Allahabad. Principal—Tara Chand, M.A., D.Phil Ox. 5 Tutors.

CROSTHWAITE GIRLS' COLLEGE, Allahabad. Lady Principal—Miss Sudhalata Duara, M.A., B.T. Teacher—Miss Sukhalata Duara, M.A., B.T.

## GENERAL INFORMATION

Founded in 1887, the Univ. concerned itself mainly with examinations, having no teaching staff (except that of its School of Law) until 1914. Thereafter it established Chairs and Readerships, etc., for research work in Economics and Modern History for graduate students. In Jan. 1922 was passed an Act (which came into operation in July 1922) for the reorganization of the Univ. as a unitary, teaching, and residential institution, with control, however, over the quality and character of the teaching in "Associated" colleges. In 1926 was passed the Agra University Act, providing for the transfer of the control of these colleges to the Agra Univ. The Univ. now functions as a purely unitary, teaching, and residential Univ.

LIBRARY, 67,466 vols. MUSEUM in connexion with Economics Dept.

FACULTIES. Arts, Science, Law and Commerce.

DEGREES, ETC. B.A., M.A., D.Litt ; B.Sc, M.Sc, D.Sc ; LL.B., LL.M., LL.D., D.Litt. (Econ) ; B.Com

The courses of study in the Univ. for the bachelor's degree cover 2 (B.A. and B.Sc Hons —3) years, following upon an examn of "Intermediate" standard, equivalent to the Higher School Examn. of the Univ of Cambridge. The intermediate examns. of other Univs. incorporated by law in British India are recognized for the same purpose.

For admission to courses leading to higher degrees the B.A. and B.Sc. degrees of any Univ. in British territory recognized by the law of the place in which it is situated, and also of the Mysore Univ., are accepted as equivalent to Allahabad B.A. and B.Sc.

SCHOLARSHIPS FOR GRADUATES. 2 Emp. Vict. Research Readerships, Rs. 100 p.m. (3 yrs), and 2 Kanta Prasad Research Scholarships for Hindus, Rs. 100 p.m. (2 yrs), for M.Sc., Research Scholarships of Rs. 100 each (1 yr.) in History (2), Economics (2), Sanskrit and Hindi (2), Persian (1), Arabic, Persian and Urdu (2), Philos. (1), English (1), Science (5), several of smaller amount. There is a SPECIAL FUND for enabling students and staff to proceed to *Foreign Countries* for higher studies.

PUBLICATIONS. *Calendar*, Rs. 5 ; *Univ. Examns. Prospectus*, Re. 0.8.0. ; *Univ. Minutes*, Rs. 5 ; *University Magazine*, Rs. 2.8 p.a. ; *University Studies*, Rs. 7.8 ; *Indian Journal of Economics*, Rs. 12 p.a. ; *Annual Report*.

## THE YEAR 1927-28

NEW BUILDINGS. Several important buildings completed, such as the new Hostel, new Block for the Oriental Depts., new Gas Plant, and extension of the Zoological, Botanical, and Chemical Laboratories.

NEW DEPARTMENTS AND POSTS. A separate dept. of Politics, with Reader, Lectr., and part-time teacher. Sanction accorded to the creation of a Professorship in the Arabic-Persian Dept. for a period of two years in the first instance. Part-time teachers in French and German appointed.

OTHER DEVELOPMENTS. Govt. has allowed a personal grant of Rs. 5000 a year to Dr. M. N. Saha, D.Sc., F.R.S., Head of the Physics Dept., for research.

EXTRA-MURAL WORK. Many popular lectures were delivered by members of the teaching staff.

CHANGES. Ordinances for B.A. Honours and D.Litt. in Economics passed.

RESIGNATIONS. Rai Bahadur Major Ram Prasad Dube, Hon. Treasurer, and Dr. N. K. Sur, D.Sc., Lectr., the former on appt. to the Kashmir State and the latter on appt. as Govt. Meteorologist.

STUDENTS. Full-time : total, 1583.

DEGREES. B A., 173 ; M.A., 53 ; B.Sc., 76 ; B.Sc. Honours, 6 ; M.Sc., 32 ; D Sc., 1 ; LL.B., 218 , B Com., 6

# THE ANDHRA UNIVERSITY, BEZWADA

VISITOR—THE GOVERNOR-GENERAL

CHANCELLOR—THE GOVERNOR OF MADRAS.

PRO-CHANCELLOR—THE RAJA OF JEYPORE.

VICE-CHANCELLOR—C R REDDY, M A. Camb.

REGISTRAR—C. D. S CHETTI, M A

## GENERAL INFORMATION

The Act of the Madras Legislative Council constituting this "University in and for the Telugu districts of the Presidency of Madras" received the assent of the Governor-General on Jan 13, 1926, and came into force on April 26, 1926. The districts in question are . Ganjam, Vizagapatam, West Godavari, East Godavari, Kistna, Guntur, Nellore, Bellary, Anantapur, Cuddapah, Kurnool, and Chittoor. These districts constitute the "University area," within which colleges previously affiliated to the Madras University are now affiliated to the new University. The Act establishes four categories of colleges. "University College," providing for honours or post-graduation courses qualifying for admission to the higher degrees; "First Grade College," providing courses qualifying for admission to examinations for the ordinary degree in Arts or Science; "Second Grade College," preparing for the Intermediate Examination, and "Special Grade College," providing courses in Oriental languages or in other special subjects. No "University" or "First Grade" College may be established or affiliated except in the towns of Vizagapatam, Rajahmundry, or Anantapur, or within ten miles thereof, provided that within 5 years the University may affiliate as First Grade any Second Grade College existing when the Act was passed.

Among the powers of the University specified in the Act are . to promote the development of the study of Telugu, Kanarese, Urdu, and Oriya, and their use as media of instruction and examination; to institute professorships and other teaching posts, to maintain colleges and hostels; to erect, equip, and maintain laboratories and libraries; to institute and provide funds for the maintenance of a publication bureau, an employment bureau, students' unions, and University Extension boards. Every student of the University must reside in a hostel or under such conditions as may be prescribed.

The supreme governing body is the Senate, by which the Vice-Chancellor, a whole-time salaried officer and principal executive, is elected (for 3 years). The other principal authorities of the University are: an executive body called the Syndicate, comprising 12 members, including the Vice-Chancellor and Director of Public Instruction, the Academic Council, the Faculties and Boards of Studies.

**FACULTIES.** Arts, Science, Oriental Learning, Teaching, Medicine.

**ADMISSION** to Univ. Courses is by matriculation examn. and Secondary School leaving certificate examn., or any other examn. recognized as equivalent thereto.

**DEGREES.** B.A , B.A. Hons. , M.A , M.A. Hons ; B.Ed., M.Ed. ; D Litt., D.Sc., K.P., M.B.B.S , L.M S., M O.L. ; B.Sc., B.Sc Hons. ; M.Sc., M.Sc. Hons.

**DIPLOMAS :** Titles (4 years' course) and Certificates of Proficiency in Oriental Learning.

The **EXAMINATIONS** of all Statutory Indian Univs. are recognized as equivalent to the corresponding examns of this Univ.

**PUBLICATIONS.** *University Code* (Administration, Statutes, Ordinances, Regulations, and Syllabuses); *Annual Register* (Affiliated Colleges, Endowments, Graduates); *Annual Report*; *Minutes*. A Publication Bureau is in the course of formation

**COLLEGES.** There are 7 first-grade colleges, 5 second-grade, 1 preparing students for a Medical Degree (M.B.B.S.), and 1 preparing for teaching (B.Ed.) Degrees. In addition there are 7 Oriental colleges recognized by the Univ. for the Oriental Title Examns and Certificates of Proficiency in Oriental learning.

## COLLEGES AFFILIATED IN DEGREE COURSES

**ANANTAPUR, Ceded Districts College.** Principal—N. R. Krishnamma, B.A. Ox., and 20 lecturers.

**COCANADA, P.R. College.** Principal—V. Ramakrishna Rao, M.A., Ph.D., L.T., and 20 lecturers.

**GUNTUR, Andhra Christian College.** Principal—Rev. J. Roy Strock, M.A., D.D., and 19 lecturers

**MADANAPALLE, Theosophical College.** Principal—C. S. Trilokikar, M.A., and 14 lecturers

**MASULIPATAM, Union Noble College** (Church Miss Soc.). Principal—Rev. A. B. Johnston, M.A., and 19 lecturers.

**RAJAHMUNDRY, Government Arts College** Principal—W. B. Brierley, B.A., and 23 lecturers.

**VIZIANAGRAM, Maharaja's College.** Principal—K. Janaki Rao, B.A., L.T., and 28 lecturers

## Medicine

**VIZAGAPATAM, Medical College.** Principal—Lt.-Col. F. C. Fraser, I.M.S.

**RAJAHMUNDRY, Government Training College.** Principal—M. S. H. Thompson, B.A., M.R.A.S.

## THE YEAR 1927-28

**BENEFACTIONS** Total amount received about Rs. 91,000, of which Rs. 1500 for a medal, about Rs. 2300 for Extension Work, and the balance for the purposes of the University

**NEW BUILDINGS.** Plans and estimates are ready, and construction will soon begin

**EXTRA-MURAL WORK.** Schemes for Extension Work, such as mass education, vacation lectures for teachers, and for Students' Union, are awaiting sanction of Government.

**STUDENTS.** Full-time : total, 3476.

# BENARES HINDU UNIVERSITY

LORD RECTOR—THE GOVERNOR-GENERAL OF INDIA, *ex officio*.

VISITOR—THE GOVERNOR OF THE UNITED PROVINCES, *ex officio*.

CHANCELLOR—THE MAHARAJAH OF BARODA.

PRO-CHANCELLOR—THE MAHARAJAH OF BIKANER.

VICE-CHANCELLOR—Pandit MADAN MOHAN MALAVIYA, B.A., LL.B.

PRO-VICE-CHANCELLOR AND SECRETARY OF THE COURT AND THE COUNCIL—Principal A. B. DHRUVA, M A , LL B

TREASURER—Hon RAJA MOTI CHAND SAHEB, C I E.

REGISTRAR—Professor SYAMA CHARAN DE, M A.

On April 1, 1916, a teaching and residential Hindu University was incorporated " for the purposes, among others, of making provision for imparting education, literary, artistic, and scientific, as well as agricultural, technical, commercial, and professional, of furthering the prosecution of original research, and of giving instruction in Hindu theology and religion, and of promoting the study of literature, art, philosophy, history, medicine, and science, and of imparting physical and inoral training."

The University began to function on Oct 1, 1917, when it became responsible for the maintenance of the Central Hindu College, Benares. Colleges of Oriental Learning and Theology, and a Training College, were opened in July and Aug. 1918, a College of Engineering in 1919, a Department of Mining and Metallurgy and a Law College in 1923. The Univ's assets, including perpetual grants by the Govt. of India and by Ruling Chiefs of Rs. 1,00,000 and 75,000 respectively, are valued at Rs. 1,80,00,000

Every member of the *Court*, the supreme governing body, must be a Hindu. It includes representatives of benefactors, graduates, the Senate, the Jain and Sikh communities, Hindu religion and Sanskrit learning, the learned professions. Of the *Senate*, the academic body, at least three-fourths must be Hindus; it includes (1) the Chancellor, Pro-Chancellor, Vice-Chancellor, Pro-Vice-Chancellor, Univ. Profs., and Principals or Heads of Colleges as *ex-officio* members; (2) 5 members nominated by the Visitor; (3) elected members, including representatives of the Court, of Hindu religion and Sanskrit learning, and graduates. The *Council* and *Syndicate* are the executive bodies of the Court and Senate respectively.

LABORATORIES : Chem., Physics, Zool., Bot , Geol , Mining, and Metallurgy. The Engineering College laboratories include shop equipped for manufacturing machines, smith and paint shops, iron and brass foundry, and motor-car repair shop ; a power-house is also attached to the College.

ADMISSION. The Univ. is, subject to regns., open to persons of all classes, creeds, and castes, but provision is made for religious instruction (which is compulsory for Hindu students) and examination in the Hindu religion only. Women are eligible for admission to the Univ. and examns., degrees, etc.



**FACULTIES.** Oriental Learning, Theology, Arts, Science—Pure and Applied, Law, Ayurveda.

**DEGREES** B.A., M.A., D.Litt., B.Sc., B.Sc. in Appl. Sc. (Engin.), B.Sc. (Mining), B.Sc. (Metallurgy), M.Sc., D.Sc., Shastri, Shastracharya, Smritiratna, Smritisagara, Dharmashastrī, Dharmacharya, LL.B., LL.M., LL.D., L.T. The admission qualification for Degree course (4 yrs) in Mining or in Metallurgy is Interim Sc. examn of an Indian Univ. or Board of Interim. Education, with Physics, Chem., and Maths.

**RESIDENCE.** Students are required to live in a Univ. or College Hostel, or, subject to the approval of the Pro-Vice-Chancellor, with parents or guardians. There are 6 hostels accommodating 1500 students and 84 residences for members of the staff.

**SCHOLARSHIPS.** 76 for Arts and Science students of merit, 20 for Teachers' Training College. Numerous other College Scholps.

## COLLEGES MAINTAINED BY THE UNIVERSITY

**CENTRAL HINDU COLLEGE.** Principal (Univ. Prof. of Sansk)—A. B. Dhruva, M.A., LL.B. Honorary Univ. Profs.—Sir P. C. Roy, Kt, C.I.E., D.Sc. (Chem.); Nil Ratan Dhar, M.A., D.Sc. (Phys. Chem.); C. V. Raman, M.A., F.R.S. (Phys.); B. Keightley, M.A. (Philos.); N. C. Nag, M.A., F.I.C. (Chem.); V. G. Kale, M.A. (Econ.), S. Radhakrishnan, M.A. (Phil.). Others—K. K. Mathur, B.Sc. (Geol.); S. S. Bhatnagar, D.Sc. Lectrs—*Biol*—R. S. Inamdar, B.A. Camb.; N. K. Tewari, M.Sc., Bholanath Singh, M.Sc., K. Mathur, M.Sc., K. N. Gupta, M.Sc.; R. C. Saksena, M.Sc.; S. C. Chatterjee, M.Sc.; Y. Bharadwaj, M.Sc.; K. R. Mehta, M.Sc.; A. B. Misra, M.Sc.; Chandra Bal, M.Sc. *Chem*—M. B. Rane, M.A., S. Prasad, M.Sc.; S. K. Basu, D.Sc.; N. N. Godbole, M.A., B.Sc., Dongar Singh; P. S. Varma, M.Sc.; D. N. Banerji, M.Sc., P. N. Roy, M.Sc., A. T. Mazumdar, M.Sc.; K. C. Banerji, M.Sc. *Econ*—Pran Nath, D.Sc., Gurmukh Singh, M.Sc.; B. K. Mazumdar, M.A.; S. Shastri, M.A. *Engl*—M. M. Desai, M.A.; J. S. Yajnic, M.A., LL.B.; S. N. Lal, M.A. *Hist*—S. N. Bhattacharya, M.A.; K. Bhattacharya, M.A., A. S. Altekar, M.A., LL.B.; S. V. Puntambekar, M.A. Ox., G. P. Mehta, M.A.; J. N. Prasad, M.A., Ph.D., R. D. Banerjee, M.A. *Maths*.—P. Prasad, M.A., B.Sc.; S. Pande, M.Sc.; D. C. Sarute, B.A. *Pers*.—Mirza M. M. Husain *Philos*—P. B. Adhikari, M.A.; S. K. Maitra, Ph.D.; I. Tewari, M.A.; B. L. Atreya, M.A. *Phys*.—P. K. Dutt, M.A.; N. K. Sethi, D.Sc.; U. A. Asrani, M.Sc.; N. K. Pande, B.Sc.; C. M. Sogani, M.Sc.; P. C. Ghose, M.Sc.; K. L. Tewari, B.Sc. *Religion*—P. N. Patankar, M.A. (also in Marathi); H. R. Pande, B.A. *Sansk*—N. Bhattacharya, M.A.; Baldeva Upadhyaya; B. Nath, M.A. *Hindi*—S. Das, B.A.; A. S. Upadhyaya. *Bengali*—Harihar-Shastri. *Urdu*—Mahesh Prasad.

**COLLEGES OF ORIENTAL LEARNING AND THEOLOGY.** Principals: O.L.—Maha. Pandit Pramathanatha Tarkabhusana; Theol.—Pandit Prabhu Datta Agnihotri. 30 other Profs.

**TEACHERS' TRAINING COLLEGE.** Principal, L. S. Jha, M.A., L.T. 5 Assts.

**ENGINEERING COLLEGE.** Principal and Prof of Mech. E.—C. A. King, B.Sc., A.R.C.Sc., M.I.M.E., M.I.S.E. Other Profs.: L. D. Coueslant, B.Sc. Lond., A.M.I.M.E.; B. C. Chatterji, B.A., B.Sc., B.L., M.I.E.E.; R. S. Jain, B.Sc., A.M.I.E.E.; H. K. Sen, M.I.Mech.E. and Min.E. 8 Asst Profs. and a Demr Arrangements have been made for holding, at the College, examns. of the City and Guilds of London Institute.

AYURVEDIC COLLEGE. Principal, D. Das Kaviraja, and six others.

DEPARTMENT OF MINING AND METALLURGY. Head of Dept. and Univ. Prof. of Mining and Metallurgy—N. P. Gandhi, M.A., B.Sc., A.R.S.M., D.I.C., F.G.S., M.I.M.M.

LAW COLLEGE. Hon Profs. Sir Tej Bahadur Sapru, M.A., LL.D., K.C.S.I.; M. L. Agarwala, B.Sc., LL.D.; K. N. Katju, M.A., LL.D., A. P. Dube, B.C.L.; Munshi M. Prasad, M.A., LL.B.; P. N. Sapru, M.A., LL.B., Barr.-at-Law; Shankar Saran, B.A. Ox., Barr.-at-Law; A. N. Sanyal, B.A., LL.B. Lond.; U. S. Bajpai; Syed Agha Haidar; P. L. Banerji, S. N. Sen; Wali Ullah, M.A., B.C.L., LL.D., S. Subramaniam, B.A., M.L. Mad; B. N. Vyasa, M.A., LL.B. All.

### THE YEAR 1927-28

DEGREES. B.A., 113, M.A., 39; B.Sc., 60, M.Sc., 16, B.Sc. (Min. and Met.), 6; B.E., 36, L.T., 35; Shastri, 20, Shastracharya, 12, Dharmacharya 1; D.Sc., 1

# UNIVERSITY OF BOMBAY

CHANCELLOR—THE GOVERNOR OF BOMBAY.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—SIR CHIMANLAL  
H. SETALVAD, K C I E , B.A , LL D

REGISTRAR—KHAN BAHADUR FARDUNJI M. DASTUR, M A , I.S.O.

## GENERAL INFORMATION

Founded in 1857, the Univ. has concerned itself mainly with examinations, and maintained no teaching staff until 1913. Since then it has provided annually lectures for post-graduate students in English, History, Economics, Sociology, Sanskrit, and Mathematics. In 1919 it established a School of Economics and Sociology for research in these subjects. Extensions to University buildings, costing Rs 8,13,000, were completed in 1923.

LIBRARY (established 1864, owing to Premchund Roychund Benefaction, Rs. 4,00,000), 35,000 vols, including Fawcett Collection (Econ.).

FACULTIES. Arts, Science (including Agric and Engin.), Law, Medicine.

DEGREES. B.A., M.A., B.Sc., M.Sc.; B.Com., M.Com.; LL.B., LL.M.; M.B., B.S.; B.Hy, M.D., D.Hy, M.S., B.Ag, M.Ag, B.E. (Civ., Mech.), M.E. DIPLOMA in Ophthalmology (D.O).

RECOGNITION of examns. of other Univs. Interm. Arts and Sc. examns. of other Indian Univs. and London, and also B.A., B.Sc, LL.B. of some of the Indian Univs (see *Handbook*)

FEES for Univ post-grad. courses, Rs 10 per term.

RESIDENCE. Board and lodging at Colleges generally from Rs 40 to Rs. 75 p.m.

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## THE YEAR 1927-28

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LEGISLATION. A revised course for the Examn. in Philosophy, to come into effect in 1930. A new branch called " Ancient Indian Culture " added to the subjects of the Examn. for M A. Candidates who offer Philosophy have the option of submitting a thesis in lieu of papers. By the new University Act of

March 1928, while executive functions will be carried on by the Syndicate, Academic work will be looked after by the Academic Council. A Rector will be appointed when the need arises. The Government will contribute Rs. 1,17,000 per annum, for recurring expenditure.

VISITS OF TEACHERS FROM OTHER UNIVS Prof. Luders, Berlin Univ., lectured on "Indian Philosophy" Prof Ernest P Horowitz of Hunter College, New York, lectured on "Vedic Philosophy and Religion"

STUDENTS Full-time, 9960, including 345 graduates. Part-time, 1886, including 1356 graduates.

DEGREES B A , 763 , M A , 66 ; B Com., 54 ; B T , 42 ; B Sc , 242 , M Sc , 19 , B Ag , 38 , M Ag , 3 , B E (Civil), 66 ; B.E. (Mech ), 4 , LL B., 395 , LL.M , 3 , M B , B S., 165 , B Hy , 2 ; M D , 3 ; M.S , 3 ; D O , 3 ; M Com , 3.



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Minto Prof.

### *English*

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### *History and Culture, Ancient Indian*

Bhandarkar, D R , M A , Ph D.  
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Chatterjee, S. K., M A, D Litt. Lond	Sir R B Ghosh Prof of Applied P
<i>Physics</i>	[Palit Prof
Raman, C. V., M A, D Sc, F R S	Mitra, S. K, D.Sc G P Singh Prof.
Bose, D. M, M A, Ph D. Berlin	<i>Zoology</i>
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## GENERAL INFORMATION

Founded in 1857, this Univ. has been mainly an examining body, but has provided facilities for research since 1893 (when the Premchand Roychand Endowment was applied to this purpose), and post-graduate teaching since 1909. In 1917 a new scheme for post-graduation teaching came into operation under which all students who desire instruction in the M.A. or M.Sc. courses in Calcutta must be registered in the Senate House as Univ. students. A Commission under the Presidency of Sir Michael Sadler, K.C.S.I., appointed by the Govt. of India in Sept. 1917 to inquire into the condition and prospects of the Univ. and consider the question of a constructive policy, presented a comprehensive report and a series of important recommendations in March 1919. Teaching in all the subjects for the B.Com. examn, including French, German, and other modern languages, Arabic, Pali, Persian, Tibetan, Chinese, and Japanese, is provided by the Univ.

Government grants from 1912 to 1927 amounted to Rs. 52,10,711, including Rs. 5,87,000 for endowment of chairs, and Rs. 14,19,282 for Hostels and a Students' Mess Scheme. During the same period private benefactions amounted to Rs. 60,86,000.

The Univ. buildings (expenditure on which from 1912 to 1927 amounted to Rs. 38,07,111) include a Senate House, completed in 1872 at a cost of Rs. 4,35,000, the Durbhanga LIBRARY with Law College, Hostel, and Univ. offices (Rs. 12,00,000), the Univ. Press, the Asutosh Building (Rs. 10,25,111) for post-graduation classes in Arts, post-graduation offices and lending library, and two palatial buildings for the teaching of post-graduation Science courses. LABORATORIES (in Univ. Coll. of Science). Phys and Chem. (Pure and Applied), Applied Maths., Expl. Psych., Biol., Agric, Geol, etc.

**FACULTIES** Arts, Science, Law, Medicine, Engineering. The Affiliated Institutions (v. *infra*) include Colleges of Law (Calcutta—Ripon and Univ.—Gauhati), Medicine (Belgachia and Calcutta), Engineering (Sibpur), and Teaching (Calcutta—David Hare and Diocesan).

**DEGREES, ETC.** B.A., M.A., Ph.D.; B.Sc., M.Sc., D.Sc.; B.Com.; B.T.; B.L., M.L., D.L.; M.B., M.D., M.S., M.O., D.P.H.; B.E., D.Sc. (Engn.).

**STUDENTS' WELFARE** A committee of medical experts deals with all matters relating to the health of students, including physical education and organization of games and other forms of recreation. Military Training is provided for a Univ. Corps recruited from affiliated colleges. At the Hardinge Hostel for Law students the monthly charges amount to from Rs. 24 to Rs. 26.

**RESEARCH STUDENTSHIPS, ETC.** Premchand Roychand, Rs. 1400 p.a. for 3 yrs., awarded annually, 1 in Lit. and 1 in Science subject; Sreegopal Basu-mallik, Rs. 4000 in Vedanta (compared with Western) Philosophy, Durbhanga, Rs. 600 in Med.; Sir R. B. Ghosh, Rs. 900, 8 annually to Science students to be attached to the Sir R. B. G. Profs.; Gurupranna Ghosh, 1 annually, tenable for 3 yrs. in Japan (Rs. 1000) or Europe or America (Rs. 2000) by Bengal Hindus; Palit., Rs. 1,00,000 endowment for research or investigation out of India; Sir R. B. Ghosh Travelling Fellowships (3), Rs. 2,50,000 endowment for research or investigation out of India for 1 yr., Jubilee post-graduation scholarships in literary and scientific subjects, Rs. 32 p.m. for 2 yrs., one in each subject of the Honours B.A. and B.Sc. exams, Sir P. C. Ray, annual prize for research in Chemistry, by a graduate student of the Univ. working in the College of Science, gold medal (value Rs. 100) and Rs. 500 in cash; Sir B. K. Bose, annual scholarship of Rs. 40 p.m. for a graduate student of the Univ. College of Science; S. N. Ghosh Lectureship in Comp. Religion, Rs. 9000, Tagore Professorship in Law, Rs. 9000, Kamala Lectureship in Indian Life and Thought, Rs. 1000 and gold medal. Numerous other lectureships, scholarships, medals, and prizes.

**PUBLICATIONS** *Calendar*, Rs. 7 8; *Univ. Regulations*, Rs. 3, *Proceedings of Councils of Post-graduate Teaching*, 1918-1923, Rs. 3 each year; *Convocation Addresses*, 1915-1923, Rs. 5, 1858-1923, Rs. 10, *Calcutta Review*, monthly, annual subn., Rs. 7 inland, Rs. 10 foreign; *Journals of Depts. of Letters and of Science*, Rs. 9 per vol.; *Bulletin of Math. Society*, etc.

## AFFILIATED INSTITUTIONS RECOGNIZED IN DEGREE COURSES

[B.A., M.A., B.Sc., M.Sc., B.Com., etc. = affiliated up to B.A., M.A., etc., standard.]

**BAGERHAT COLLEGE.** B.A. Principal—K. C. Nag, M.A. Vice-Principal—N. C. Ray, M.Sc. 23 other Teachers.

**BANKURA, Wesleyan College.** B.A. and B.Sc. Principal—A. E. Brown, C.I.E., M.A. Camb., B.Sc. Lond. Vice-Principal—A. R. Spooner, B.A. Lond. 23 other Teachers.

**BARISAL, Brojomohan College.** B.A. and B.Sc. Principal, and Prof. of *Maths*—S. C. Chatterjee, M.A. Vice-Principal—C. H. Ray, M.A. 35 other Teachers.

**BELGACHIA, Carmichael Medical College.** M.B. Principal—Kedarnath Das, C.I.E., M.D. Profs.: *Anat.*—M. N. Bose, M.B., C.M. Edin. *Physiol.*—S. C. Mahalanobis, B.Sc., F.R.S.E. *Mat. Med.*—P. Nandi, M.D. *Midw.*—K. N. Das, C.I.E., M.D.; N. Basu, L.M.S. *Surg.*—M. Mitra, M.D. Brux.,

F.R.C.S. Edin. *Med.*—B. C. Roy, M.D., M.R.C.P., F.R.C.S. *Jurispr.*—Major J. C. De, I.M.S. *Op. Surg.*—L. M. Banerjee, M.S. Calc., F.R.C.S. Eng *Hygiene*—T N Majumdar, D.P.H. 45 other Teachers.

BERHAMPUR, *Krishnath College*. B.A. and B.Sc. Two years' course for Diploma in Commerce. Principal—B. C. Das, M.A. Camb. 40 Profs. and other Teachers

BHOWANIPUR, *Asutosh College*. B.A. and B.Sc. Principal, and Prof. of *Econ.*—Panchanan Sinha, M.A., B.L. 28 other Teachers.

CALCUTTA, *Bangabasi College*. B.A. and B.Sc. Principal—G. C. Bose, F.H.A.S., M.A., M.R.A.S. 44 Teachers

CALCUTTA, *Bengal Engineering College* (Govt.). B.E. Principal—T. H. Richardson, M.A., B.A.I. Dub., M.I.C.E. Irel., M.I.E. Ind. Profs. of *Civil Engin.*, *Elec. Engin.*, *Mech. Engin.*, *Mining*, *Physics*, *Maths.*, and *Chemistry*. 21 other Teachers.

CALCUTTA, *Belhune College* (Girls). B.A. Supported by Govt. Principal—Miss G. M. Wright. 14 Teachers.

CALCUTTA, *City College*. B.A. and B.Sc. Principal, and Prof. of *Engl. Lit.*—Herambachandra Maitra, M.A. Vice-Principal, and Prof. of *Maths.*—K. P. Chattoraj, M.A. 44 other Teachers.

CALCUTTA, *David Hare Training College* (Govt.). B.T. Principal—W. E. Griffith, M.A. Prof. of *Hist. of Educn.*—Chintaharan Chakravarti, M.A., B.T. Other Profs.: Binayabhusan Sarkar, B.A., B.T.; K. D. Ghose, B.A. Ox.; G. C. Dasgupta, B.A., B.T.

CALCUTTA, *Diocesan College* (Girls). B.A., B.T. Principal—Sister Dorothy Frances. 30 Teachers

CALCUTTA, *Islamia College*. B.A. Principal—A. H. Harley, M.A., I.E.S. 22 other Teachers

CALCUTTA, *Loreto House* (Girls). B.A. Established 1842 Connected with Univ. since 1889. Principal—Provincial of the Loreto nuns in India. Vice-Principal—Superioress of Loreto House 10 other Teachers.

CALCUTTA, *Medical College of Bengal*. M.B. Principal, and Prof. of *Medicine*—Lt.-Col. W. L. Harnett, I.M.S. Other Profs. *Anat.*—N. Pan, M.B. *Physiology*—Lt.-Col. A. C. Macgillchrist, D.S.O., M.A., M.D., I.M.S. *Biology*—E. Ghosh, M.Sc., M.D. *Chem.*—Hiralal Singha, B.A., M.B. *Dentistry*—J. E. Gill, D.D.S. Leeds. *Hygiene*—R. B. Khambata, M.R.C.S., L.R.C.P., D.P.H. *Mat. Med. and Clin. Med.*—Major E. H. V. Hodge, M.B., I.M.S., R. N. Chopra, M.A., M.D., I.M.S. *Med.*—Major Hingston, M.D., I.M.S. *Med. Jurispr.*—Major J. C. De, M.B., M.R.C.P., I.M.S. *Midw.*—Major V. B. Green Armytage, M.D., M.R.C.P., I.M.S., Major Fleming Gow, M.D., I.M.S. *Ophth. Med. and Surg.*—Major E. W. O'G. Kirwan, M.B., F.R.C.S., I.M.S. *Neurology*—Major H. E. Alexander, F.R.C.S., I.M.S. *Path.*—Capt. D. Shanks, M.D., B.A., I.M.S. *Physics*—Tulsidas Kar, M.A. *Surgery, Principles of*—Lt.-Col. Sir Frank Conner, D.S.O., F.R.C.S., I.M.S. *Surgery, Clin. and Operative*—Lt.-Col. H. B. Steen, M.D., M.S., I.M.S. 29 other Teachers.

CALCUTTA, *Presidency College*. B.A. and B.Sc. Maintained by Govt. Number of undergrads limited to 1200. Principal—R. B. Ramsbotham, M.B.E., M.A., B.Litt., F.R.Hist.S. (Offg.) Other Profs.: *English Literature*—B. G. Mukerjee, M.A.; P. C. Ghosh, M.A.; S. K. Banerjee, M.A.; H. K. Banerjee, M.A., B.Litt.; M. G. Bhattacharjee, M.A.; S. N. Moitra, M.A. *Geology*—H. C. Das Gupta, M.Sc. *Ment. and Mor. Philos. and Logic*—Hem-

chanda De, M.A. ; Khagendranath Mitra, M.A. ; S. N. Das Gupta, Ph.D. ; R. K. Datta, M.A. *Hist.*—K. Zachariah, B.A. ; B. Sen, M.A. ; U. N. Ghoshal, M.A. , Ph.D. ; S. C. Majumdar, M.A. *Pol. Econ. and Pol. Philos.*—Sir J. C. Coyajee, B.A., LL.B. ; P. D. Mukherjee, M.A. ; D. G. Chatteraj, M.A. , S. K. Guhathakurta, M.A. *Sansk, Palh, and Bengali*—N. Chakrabarti, M.A. ; Harihar Banerjee, M.A. ; S. P. Bhattacharyya, M.A. ; S. N. Bhaduri, M.A. *Arabic and Pers*—Hedayat Hossain, Ph.D. , Md. Sonauallah, M.A. ; M. Haque, M.A. ; Zia-ul Huqs, M. *Maths and Astron*—B. M. Sen, M.Sc., M.A. Camb. ; Saradaprasanna Das, M.A. ; J. M. Bose, M.A., B.Sc. Edin. ; H. C. Sengupta, M.A. ; N. K. Bose, M.A., Ph.D. , K. N. Chakravarti, M.A. *Phys.*—P. C. Mahalanabis, B.A. ; S. Datta, D.Sc. *Chem*—R. N. Sen, M.Sc. ; P. Niyogi, Ph.D., F.C.S. *Physiol*—N. C. Bhattacharyya, M.A. , B.Sc. *Botany*—S. C. Banerjee, M.A. ; S. C. Sinha, M.A. ; G. P. Majumdar, M.Sc. 40 Assts and Demrs.

CALCUTTA, *Ripon College*. B.A., B.Sc., B.L.

*College Department*. Principal, and Prof. of Engl.—N. Raye, M.A. Vice-Principal, and Prof. of Engl.—R. N. Ghose, M.A. 37 other Teachers

*Law Dept.* Principal—S. C. Chaudhuri, M.A., LL.B. Camb., Barr.-at-Law. Prof.—J. N. Kanjilal, M.A. , D.L. 11 other Teachers.

CALCUTTA, *St. Paul's Cathedral Mission College* (formerly "The Church Missionary Society's College"). B.A. Principal, and Prof. of *Philos.*—Rev P. G. Bridge, D.D. 20 other Teachers.

CALCUTTA, *St. Xavier's College* (S.J.). B.A., B.Sc. Students of other religious persuasions are admitted. Rector—F. Roeland, S.J. 37 other Teachers.

CALCUTTA, *Sanskrit College*. B.A. Principal, and Prof. of *Philos. and Logic*—A. N. Mukerjee, Ph.D. 13 other Teachers.

CALCUTTA, *Scottish Churches' College*. B.A. Hons and B.Sc. Hons. Formerly the General Assembly's Institn. and Duff Coll. Principal—W. S. Uiquhart, M.A., D.Litt. Other Profs *Engl*—J. D. Sinclair, M.A., B.D. , J. F. Macdonald, M.A. ; S. C. Dutt, M.A. ; B. B. Ray, M.A. *Philos and Logic*—G. Ewan, M.A., Ph.D. , P. C. Sen, M.A. , S. P. Biswas, M.A. *Econ*—J. Kellas, M.A. , N. C. Bhattacharyya, M.A. *Maths*—M. S. Sarkar, M.A. , B. B. Mandal, M.Sc. , N. K. Karfarma, M.A. , B. N. Mukerjee, M.Sc. , G. D. Bhar, M.Sc. , P. R. S. *Sansk.*—B. L. Banerjee, M.A. ; K. P. Mookerjee, N. L. Vidyabinod *Bengali*—M. M. Bose. *Hindi*—Shib Narain Lala *Physics*—Rai J. Chandra Ghosh, Bahadur, M.A. (Emeritus) ; N. C. Ray, M.A. ; R. K. De, M.A., B.Sc. *Chem*—B. C. Dutt, M.A., F.C.S. ; R. N. Chatterjee, M.A. *History*—Adharchandra Mookerjee, M.A. , B.L. (Emeritus) , H. E. Fraser, M.A. ; M. L. Sarkar, M.A. ; A. C. Sen, M.A. 10 other Lectrs and Demrs.

CALCUTTA, *Vidyasagar College* (formerly Metropolitan Institn.). B.A. and B.Sc. Principal, and Prof. of *Engl. Lit. and Philos.*—J. R. Banerjee, M.A., B.L. 59 other Teachers.

CHITTAGONG, *College* (Govt.) B.A. and B.Sc. Principal—J. M. Bottomley, M.A. 32 Teachers.

COMILLA, *Victoria College*. B.A. Principal, and Prof. of *Engl. Lit.*—Satyendranath Basu, M.A. 20 other Teachers.

COOCH-BEHAR, *Victoria College*. B.A. and B.Sc. Principal, and Prof. of *Physics*—M. Dey, M.A. 21 other Teachers.

DAULATPUR, *Hindu Academy*. B.A. and B.Sc. Pass and Hons. Acharyya—Pandit J. K. Tarkatirtha Principal—B. B. Bhattacharyya, M.A. Vice-Principal—S. G. Mukerjee, M.A. 24 other Teachers.

FARIDPUR, *Rajendra College*. B.A. Principal—K. N. Mitra, M.A. 16 other Teachers.

FENI COLLEGE. B.A. Principal, and Prof. of *History*—A. C. Rakshit, M.A. 13 other Profs.

GAUHATI, *Cotton College* (Govt.) M.A. in English (A course); B.A. and B.Sc. Principal—D. Thomson, M.A., B.Sc., Ph.D. Profs. *Engl.*—R. C. Goffin, M.A. Lond.; Praphullachandra Ray, M.A.; Asutosh Chatterjee, M.A.; S. K. Bhuyan, M.A., B.L.; B. K. Kakati, M.A. Prof. of *Physics*—S. N. Chatterjee, M.A. *Chem.*—C. L. De, M.A., A. K. Das, M.A., S. C. Chatterjee, M.Sc. *Maths.*—Harshanath Sen, M.Sc. *Philos.*—R. R. Thomas, M.A. *Sansk.*—L. N. Chatterjee, M.A., V.S. *Arabic and Persian*—S. Md. Mahibullah *Economics*—A. E. Brown, M.A., LL.B., Barr.-at-Law. 12 other Teachers.

GAUHATI, *Earle Law College* (Govt.). Principal—J. Borooah, Barr.-at-Law. Profs. A. E. Brown, M.A., LL.B., Barr.-at-Law; R. C. Das, M.A., B.L.

HETAMPUR, *Krishna Chandra College*. B.A. Principal—B. C. Sengupta, M.A., B.L. 10 other Teachers.

HUGHLI COLLEGE. B.A. and B.Sc. Maintained by Govt. Principal, and Prof. of *Hist.*—R. B. Rainsbotham, M.B.E., M.A., B.Litt. Ox., I.E.S. Vice-Principal, and Prof. of *Philosophy*—P. D. Shastri, M.A., Ph.D., D.Sc., I.E.S. 19 other Teachers.

KRISHNAGAR COLLEGE (Govt.). B.A. and B.Sc. Principal—Egerton Smith, M.A. 18 other Teachers.

MIDNAPORE, *Midnapore College*. B.Sc. (Hons. in Phys. and Maths.). Principal—H. C. Sanyal, M.A., B.L. 18 Teachers.

MYMENSINGH, *Anandamohan College*. B.A. Principal—Jajneswar Ghosh, R.B., M.A., Ph.D. 28 Teachers.

PABNA, *Edward College*. B.Sc. Principal—R. Bose, M.A. 17 other Teachers.

RAJSHAH, *Government College*. B.A. and B.Sc. Principal—T. T. Williams, M.A. 37 other Teachers.

RANGPUR, *Carmichael College*. B.A. and B.Sc. Principal, and Prof. of *Phys. and Maths.*—D. N. Mallik, B.A. Camb., Sc.D. Dub., B.Sc. Lond., I.E.S. 24 other Teachers.

SERAMPORE COLLEGE (chartered in 1818 by the King of Denmark. Grants a B.D. degree which is accepted as equivalent to Calcutta B.A. as qualifying for post-graduation courses in most subjects. (Bishops' College, Calcutta, and 4 other Theological institutions are affiliated to it). B.A. Principal—G. Howells, M.A., B.D., B.Litt., Ph.D. 25 other Teachers.

SYLHET, *Murari Chand College* (Govt.) B.A. Principal—E. Roberts, M.Sc. 23 Teachers.

## THE YEAR 1926-27 (return for 1927-28 not received)

BENEFACTIONS. For medals, prizes, etc., Rs. 4,010

NEW BUILDINGS. The construction of the 3rd and 4th storeys of the Asutosh Bldg. is nearing completion.

**OTHER DEVELOPMENTS.** Arrangements were made to hold a Special Convocation every year to confer degrees on Grads desirous of proceeding abroad for study, and the first such Convocation was held in August 1927.

**CHANGES IN REGULATIONS.** New Rules, conforming with the requirements of the Gen. Med. Council governing Med. courses and examns. and the D.P.H. Examn. sanctioned by Govt. Grads. in Arts, Sci., Med., and Engin. declared eligible for admission to the B.L. courses. Bengali and Urdu included in list of 2nd Langs. for B.A. examn. The system of delivering lectures in Vernaculars for the Intern. and B.A. examns. introduced and attitude thereat made compulsory as in other subjects.

**INTERCHANGE OF TEACHERS.** Prof. H. Luders of the Univ. of Berlin was apptd. a Reader to deliver six lectures on "Archæological Exploration of Central Asia and its bearing on the History of Indian Lit. and Civn."

**DEATHS.** Abinashchandra Bose, Controller of Examns., H. Stephen, Prof. of English.

**RETIREMENT.** Sir William Ewart Greaves vacated office of Vice-Chancellor.

**GHOSH TRAVELLING FELLOWS** for 1927-28 were awarded to Prof. D. M. Basu (to visit Continental labs.), Dr. J. N. Ray (to work at Graz or in Micro-Chemical Research Lab., Manchester), J. C. Ghosh (Research in Engl. Lit. in European Univs.). The Viceroy's Gold Medal, insttd. in 1926 by Lord Irwin and open for competition yearly to grads. of any Brit. Indian Univ., was awarded to S. K. De of Presidency Coll. in 1927.

**DEGREES (1926).** B.A., 1638, M.A., 265, B.Sc., 684, M.Sc., 72, B.T., 56, B.L., 756, M.L., 2, M.B., 221, B.E., 21, B.Com., 43, Ph.D., 3, D.P.H., 15.

## CALCUTTA SCHOOL OF TROPICAL MEDICINE AND HYGIENE

The School, which comprises (1) the SCHOOL OF TROPICAL MEDICINE, (2) the INSTITUTE OF HYGIENE, (3) the CARMICHAEL HOSPITAL FOR TROPICAL DISEASES, and (4) the CALCUTTA PASIFUR INSTITUTE, is supported mainly by the Government of Bengal, but it has an endowment fund which amounted on Dec. 31, 1925, to nearly £90,000, and receives large sums annually from commercial and industrial firms and individuals and the Indian Research Fund Association. A post-graduation clinical and laboratory course (Oct.-April) leads to the D.T.M. of the Faculty of T.M. of Bengal. A 3 months' (July-Oct.) course for medical officers and other practitioners leads to a certificate granted by the same authority. A 6 months' course (Oct.-April) for medical graduates leads to the D.P.H. of the Univ. of Calcutta and of other examining bodies.

**Research Departments.** Leprosy, Kala Azar, Hookworm, Dysentery, Diabetes, Filariasis, Cinchona, Indigenous Drugs, Radiology.

**Director**—Lt.-Col. J. W. D. Megaw, C.I.E., B.A., M.B., B.Ch., B.A.O. (R.U.I.), I.M.S., Professor of Tropical Medicine. **Other Professors:** Major H. W. Acton, M.R.C.S., L.R.C.P., I.M.S.; Major R. Knowles, B.A. Camb., I.M.S.; Major R. N. Chopra, M.A., M.D. Camb., I.M.S.; Major R. B. Lloyd, M.A., M.B., B.Chir. Camb., I.M.S.; C. Strickland, M.A., B.Chir. Camb.; S. Ghosh, M.Sc. Calc., D.Sc. Edin.; Lt.-Col. A. B. Fry, C.I.E., D.S.O., M.D. Lond., D.P.H., D.T.M. & H. Camb., I.M.S.; Major A. D. Stewart, M.B., D.P.H., D.T.M. & H., I.M.S. 12 Asst. Profs. and Lectrs.

# UNIVERSITY OF DACCA (BENGAL)

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF BENGAL.

VICE-CHANCELLOR—Prof G H. LANGLEY, M.A.

TREASURER—RAI SASAANKA COMAR GHOSE BAHADUR, B L

REGISTRAR—KHAN BAHADUR NAZIRUDDIN AHMAD, M A

LIBRARIAN—FAKHRUDDIN AHMAD, M A

## TEACHING STAFF

### *Arabic and Islamic Studies*

Siddiqi, A, M A All, Ph.D Gott  
Prof  
Israeh, Saadat Ulla Lectr.  
Ali, Munawar Lectr  
Ahmad, Marghoob, M A, M O L  
Panj. Lectr.  
Khalid, A U, M A, B L Calc  
Lectr.

2 Asst Lectrs.

### *Chemistry*

Ghosh, Prof. J. C, D Sc Calc.  
Reader  
Choudhury, J K, M A. Calc,  
Ph.D. Berl  
Reader (Analytical C)  
Guha, P. C., D Sc Calc. Reader  
De, R. L., M Sc. Calc Lectr.  
Purakayastha, R M, M Sc Calc  
Lectr  
Basu, K P, M Sc. Lectr

7 Asst. Lectrs

### *Commerce*

Junnarkar, P. B., M.A., LL.B.  
Bom. Reader \*  
Rattan, S R, B Com Birm  
Lectr

2 Asst Lectrs

### *Economics and Politics* [Reader \*]

Sinha, J C., M A, Ph D. Calc.  
Banerjee, D N., M.A Calc  
Reader  
Aiyer, S V, M.A. Mad. Lectr.

Saha, K B, M.A. Calc. Lectr.  
Dam, M L, M A Calc. Lectr.  
Sen, A K, M A Calc Lectr.  
4 Asst Lectrs

### *Education*

[Hon. Reader \*]  
West, M P, M A, D Ph Ox  
7 Hon Teachers

### *English*

..... Prof.\*  
Hasan, M, M.A. Calc., B.A. Ox.  
Reader  
Guha, P. K, M.A, B L. Calc.  
Lectr.  
Nag, U C, M A Calc, Ph D.  
Lond Lectr.  
Ray, B K, M A, B L. Calc. Lectr.  
Chanda, S. M, M A Calc.  
Lectr. (on leave)  
Roy, S N., M.A. Calc Lectr.  
1 Tempy Lectr and 2 Asst Lectrs

### *History*

Majumdar, R C, M A, Ph D  
Calc Prof (on leave).  
Ray Chandhury, H C, M A,  
Ph D Calc Reader.  
Qanungo, K R, M A Calc.  
Reader.

Banerjee, S. C., M A Calc Lectr.  
Bhattacharyya, S N., M.A Calc  
Lectr.  
Mukherjee, P. C., M A Calc Lectr.  
1 Asst Lectr.

\* Head of Department.



<i>Law</i>	[Prof.]	<i>Philosophy</i>	[Reader.*]
Ghosh, N. N., M.A., B.L. Calc.		Bhattacharyya, H. D., M.A. Calc.	
Das Gupta, J. N., M.A., M.L. Calc.	Lectr.	Bhattacharyya, U. C., M.A. Calc.	Lectr.
Dutta Gupta, A. K., M.A., B.L. Calc.	Lectr.	Gupta, U. N., M.A. Calc.	Lectr.
Pal, N. C., M.A., B.L. Calc.	Lectr.	3 Asst Lectrs	
5 Part-time Lectrs.		<i>Physics</i>	
<i>Mathematics</i>		Bose, S. N., M.Sc. Calc.	Prof.
.....	Prof.	.....	Reader.
Basu, N. M., D.Sc. Calc.		Ghosh, S. N., M.A. Calc.	Reader
Reader (Acting Head of Dept.)		Guha, B. C., M.Sc. Calc.	Lectr.
Ghosh, J., M.A. Calc., Ph.D. Edin.	Reader	8 Asst Lectrs.	
Ganguly, D. N., M.A. Calc.	Lectr.	<i>Sanskrit and Bengali</i>	
Sircar, H., M.Sc. Calc.	Lectr.	De, S. K., M.A., B.L. Calc., D.Lit. Lond.	Reader *
Mitra, S. C., M.A. Calc.	Lectr.	Basak, R. G., M.A. Calc.	Lectr.
1 Asst Lectr.		Bhattacharyya, G. P., M.A. Calc.	Lectr.
<i>Persian and Urdu</i>		Shahidullah, M., M.A. Calc.	Lectr.
Khan, F. A., M.A. Calc.	Reader	Bandyopadhyay, C., B.A. Calc.	Lectr.
Azad, S. M. Z. H., B.A. Panj.	Lectr.	Chatterjee, B. K., M.A. Calc.	Lectr.
Shadani, W. H. A., M.A., M.O.L., M.F. Panj.	Lectr.	Mozundar, M. L., B.A. Calc.	Lectr.
1 Asst		3 Asst Lectrs	

\* Head of Department.

ASSOCIATED COLLEGE. Teachers' (Govt.) Training College, Dacca. The Principal and teachers are honorary teachers of the Univ. and the College students read for the L.T. and B.T. in accordance with regns. prescribed on that behalf.

## GENERAL INFORMATION

This Univ. was established in 1921 under an Act passed in 1920 which provides for the constitution of Faculties of Arts, Science, Law, Agriculture, and Medicine. It is constituted in its main lines in accordance with the recommendations of a Committee presided over by the late Sir Robert Nathan and of the Calcutta Univ. Commission of 1917-19, presided over by Sir Michael Sadler. The Report of this Commission states that "two main factors may be clearly distinguished in the origination of the Scheme: first and foremost the desire of the Musalmans of Eastern Bengal to stimulate the educational progress of their community, and, secondly, the desire of the Govt. of India to create a new type of residential and teaching Univ. in India, as opposed to the present affiliating type. To these must be added a third factor of especial importance, the desire of the Govt. to relieve the congestion of the Univ. of Calcutta." † Although special attention is being devoted to Islamic Studies and to the needs of the Musalman community, the Univ.

† Chapter xxxiii. of the *Report* deals in great detail with the scheme for the Dacca Univ.

remains open to all, without distinction of sex, race, creed, or class. It is a unitary and residential Univ., of which the constitution resembles in many respects that of the modern English universities. The Authorities of the Univ. include a Court, an Executive Council, an Academic Council, and Faculties; and the Teaching Staff has the main responsibility for all matters connected with teaching and exams. The students (other than those living under specially approved conditions) reside in the Halls and Hostels situated in the Univ. domain, and the Univ. teachers also reside in the houses erected for them thereon. The domain consists of about a square mile of fine park land, including over 100 acres of playing fields. It is adjacent to the Civil Station of Dacca and to a park called the Ramna, and lies from 1 to 1½ miles north-west from the centre of Dacca City. It is provided with electric light and power.

The chief existing buildings for teaching and administrative purposes include: A Court House with residential block; central buildings, containing about 200 rooms, which cover 117,000 feet of floor space used for Class-rooms and Library (at present utilized partly as a hostel for Muslim students); Chemical and Physical Laboratories, each including about 12,000 sq. feet of floor space, the Curzon Hall (which accommodates about 2000 persons); the Dacca Hall buildings, with residential accommodation for 160 students, the Jagannath Hall buildings, providing for 200 students.

**LIBRARY**, 50,000 vols. **LABORATORIES**: Physical, with metal and wood workshop, Chemical, with special arrangements for training in commercial analytic methods; and Psychological

**FACULTIES**. Arts, Science, Law.

**ADMISSION**. The standard required for admission to courses leading to degrees is that of the Intermediate examn. of an Indian Univ.

**DEGREES, ETC** The duration of the courses of studies prescribed is as follows: for B A or B Sc. ordinary, 2 yrs, with Honours, 3 yrs.; M A. or M Sc., 2 yrs, or in the case of a Dacca Honours B A. or B Sc., 1 yr.; B T. or L.T., 1 yr.; M.T., 3 yrs.; B Com., 2 yrs.; B L., 3 yrs. (Dacca Honours B A., 2 yrs.); M.L., 3 yrs. The Ph D, D Sc., or D.L. may be taken by graduates of 3 yrs.' standing, but graduates of other Univs. must first pursue researches in this Univ. for 2 yrs.; published research work required.

**SCHOLARSHIPS** open to graduates: 3 of Rs. 40 each p.m., 10 of Rs. 32, 1 of Rs. 30 (for backward classes only), 2 of Rs. 25 (Muhammadans only) Law Scholarship of Rs. 50 (open to Law graduates) Research studentships 2 of Rs. 100 p.m. and 4 of Rs. 75

**FEES** Tuition, per session, for B A, B Sc., or B L. course, Rs. 96, for B Sc. with Honours in Physics and Chemistry, Rs. 120, M A., Rs. 120, M Sc., Rs. 144, Registration, R 1; Admission, Rs. 5, Athletic, Rs. 5, Students' Union, Rs. 3, Research students, Rs. 10. **HOSTELS**. Seat-rent varies from Rs. 2 to Rs. 4 p.m., including cost of light, water, medical attendance, medicine and servants. Cost of food about Rs. 12 p.m.

**TUTORIAL CLASSES** have been organized for all the Depts. of Study. All the teachers of the Univ. are engaged in the work under the control of the Heads of the Depts. and the Provosts

**PUBLICATIONS**. *General Information Pamphlet* (May); *Annual Report* (July).

## THE YEAR 1927-28

**BENEFACTIONS.** The Nawab of Dacca, Rs. 3,600 p.a. for a period of six yrs. for stipends to deserving students of the Muslim Hall. Mr. Syed Abdul Hafeez, an annual contribution of Rs. 720 for the same period and for the same purpose.

**LANDS AND BUILDINGS** The lands and buildings within the Univ. area transferred to the Univ. by the Govt. of Bengal. Payment sanctioned during the current financial year of Rs. 2,00,000 out of the total estimated cost of Rs. 9,06,884 for the construction of the new Muslim Hall.

**COLLECTION OF MSS, BOOKS, ETC** The Univ. MSS Committee has collected about 11,000 valuable Sanskrit and Bengali MSS. An annual grant of Rs. 1,000 has been sanctioned for the publication of Oriental texts.

**TOURS OF EDUCATIONAL INTEREST.** Rs. 1,500 were granted to enable advanced students of the Departments of History, Economics, and Politics, Commerce and Chemistry, to visit places of historical or commercial importance. A special one-year course for Diploma in Practical English instituted with a view to giving instruction in spoken English.

**VISIT OF TEACHERS FROM OTHER UNIVERSITIES.** Prof. G. Tucci of the Univ. of Rome resided in Dacca for about a year and lectured on Byzantine and Romanic Architecture and Arts. Dr. H. Luders of the Univ. of Berlin delivered three lectures on "The Recovery of Sanskrit-Buddhist Literature in Central Asia."

**HONORARY DEGREES** *M. Edn* — Khan Bahadur T. Ahmad *M.A.* — C. C. Bandyopadhyaya

**STUDENTS** Full-time total, 1333, including 734 graduates. Part-time total, 140.

**DEGREES** B.A., 92, M.A., 51; B.Sc., 78, M.Sc., 16; B.Com., 15; B.L., 163, B.L., 58, L.L., 3.

# UNIVERSITY OF DELHI

CHANCELLOR—H E. THE GOVERNOR-GENERAL OF INDIA.

PRO-CHANCELLOR—HON KHAN BAHADUR SIR MUHAMMAD HABIBULLAH,  
KCSI, KCIE, LL.D.

VICE-CHANCELLOR—RAI BAHADUR MOTI SAGAR, B A, LL B Panjab

TREASURER—RAM KISHORE, B A, LL B Panjab

REGISTRAR—N. K SEN, M A Calcutta

APPOINTED (\*) AND RECOGNIZED TEACHERS OF THE UNIVERSITY,  
for classes above Intermediate standard.

(S), (H), (R) denote St Stephen's, Hindu, Ramjas Colleges respectively.

## *Arabic, Persian, and Urdu*

Rahman, A. Maulvi Fazil Munshi

Fazil (S)

Verma, A N, M A Calc (H)

Ali, Syed Azhar, M A, M O L,

Munshi Fazil (Panj) (S)

Lal, P, Munshi Fazil (Panj) (R)

Fazl-i-Haq, M, M A, M O L,

Maulvi Fazil, Munshi Fazil

## *Chemistry*

Larocia, B D, B A Ox, B Sc

Panj, Ph D Lond

Univ Reader,\* Head of Dept

Mitra, J N., M.Sc. (S)

Aggarwal, A L, M Sc (H)

Goel, M L, M Sc (R)

## *Economics*

Chabiani, H L, M A Bom

\* Head of Dept

Ghosh, H C, M A. (R)

Narain, H, M A (H)

Nag, K C, M A (S)

Shamji, M, M A (R)

## *English and History*

Bal, H. C, M A. (H)

Bhattacharya, A, M A Ox (H)

Capron, R S, B A Camb (S)

Dayal, S, M A Panj (H)

Mitra, C. C., M A (R)

Gupta, B B, M A (R)

Sen, M N, M A (R).

Monk, F F, M A Ox. (S)

Winsor, F G, M A Camb (S)

Sen, S K, M A Ox (H)

Spear, T G P, B A Camb. (S)

Young, C B, M A Ox (S)

Abdur Rahman, Maulvi Fazil (S).

Mukerji, A K, M A Calc. (H)

Gupta, S C, M A Calc (H)

Ghosh, D N, M D (R)

Das, Ram Saran, M A (R).

Rai, Gaupat, M A (H)

Bhandari, D B, B A Lond (R)

## *Law*

Shaham, M S, M A Ox, Barr -at-

Law\* Lectr

Kishore, J, B A, LL B, Vakil

Lectr \*

Swarup, B, B A, LL B, Vakil

Lectr \*

Bose, A C, B A, LL B. Dean

4 other Hon Readers

## *Mathematics*

Avadh Behari Lal, M A (R)

Bannerji, A. T, M A Calc (H)

Mitra, J N, M A (R)

Mukerji, S N., M A. Panj., B A

Camb (S)

Ram Behari, M A Panj. (S).

Ram, Sita, M A Panj (R)

Ram, Sri, M A Panj (H).

## *Persian, v Arabic*

<i>Philosophy</i>	[Head of Dept	Sant Ram, M Sc.	(S ).
Sen, N K , M A Calc *		Das, R., M Sc	(R ).
Mitra, C C , M A , B L. Calc. (H )		<i>Sanskrit</i>	
Bannerji, N. V , M A. Calc. (R ).		Har Narain, M. M. Pandit, Shastri	
Hirde Narain, M.A. (H ).		(Panj )	(H )
Leigh, M S , M.A. Ox. (S.).		Lachhmi-Dhar, M.A., M.O L.,	
<i>Physics</i>		Shastri (Panj )	(S )
Khub Ram, M.A. Panj , M Sc.		Chandhri, N N , M A	(R ).
Leeds		Kaul, K. N , M A , M O L Panj	
Univ. Reader,* Head of Dept			(H )
Puri, A N , M Sc Panj (H ).		Ganga Ram, B A	(R )
Singh, T , M.Sc	Demr.	<i>Urdu, v. Arabic</i>	

## GENERAL INFORMATION

The three constituent colleges, formerly affiliated to the Univ. of the Panjab, were united to form a teaching and residential Univ. (Govt. of India Act, No. VIII. of 1922), with effect from May 1, 1922. Subsequently four Intermediate Colleges, three for boys and one for girls, were recognized as Constituent Colleges of the Univ., namely - The Anglo-Arabic, Ramjas Intermediate, Commercial, and Indraprastha (girls'). The authorities of the Univ. are a Court, an Executive Council, an Academic Council, and Faculties and Boards of Studies. The Univ. does not itself hold a Matricn Examn. As a temporary measure, it admits students who have passed the matricn examns. of other Indian Univs., but will after 1928 admit only those who have passed the Intermediate (Arts or Science) examn

FACULTIES and Deans - Arts, H L. Chablan; Science, Khub Ram; Law, A C. Bose

DEGREES. B A., B.Sc., M.A., LL B , LL M , LL.D. A two years' honours course is offered in most of the Arts subjects.

AVFRAGE HOSTEL EXPENSES, Rs. 20 p m.

PUBLICATIONS *Calendar*, Rs 3 , *Prospectus of Studies* , *Annual Report and Annual Accounts* ; *Minutes* ; Convocation Addresses by Chancellor and Vice-Chancellor

## THE YEAR 1927-28

BENEFACTIONS Messrs I and M Brijmohanlall, Rs 4,200 for a schol'p of Rs. 15 p m tenable for two yrs for practical training in higher grade Electric Engin

NEW BUILDINGS. The Government of India is considering the question of providing the University, which is at present located in the Imperial Secretariat in Old Delhi, with a permanent home. The University has hired additional rooms for a Physics Laboratory with lecture rooms adjacent to the Chemistry Laboratory, and has fitted and equipped them for instruction and practical training for the B.Sc degree.

RETIREMENTS S. Narain, Hon. Treasurer ; K. B Pirzada Muhd Husani, Librarian.

HONORARY DEGREES. D C.L.—H E Lord Irwin, Viceroy and Chancellor of the Univ LL D.—Hon'ble K. B Sir Muhd Habibullah, Pro-Chanc. ; Rai Bahadur Moti Sagar, Vice-Chanc.

STUDENTS. Full-time : total, 1292, including 178 graduates.

DEGREES. Arts, 138 ; Science, 27 , Law, 50.

# UNIVERSITY OF LUCKNOW

VISITOR—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE UNITED PROVINCES OF AGRA AND OUDH

VICE-CHANCELLOR—M B CAMERON, M A, B Sc, D Litt

TREASURER—S M HABIBULLAH, O B E, B A, M L C

REGISTRAR—R R. KHANNA, M Sc.

## PROFESSORS, LECTURERS, ETC.

### KING GEORGE'S MEDICAL COLLEGE

*Principal*—Lt-Col C A. Sprawson, C I E, M.D., B.S Lond.,  
F R C P. Eng, I M S.

#### *Anatomy*

Nat, B S, M B, Ch B St And,  
L R C P Lond, F R C S  
Eng, I M S Prof  
Goil, Capt J N, M B, B S All  
Lectr  
2 Demrs.

#### *Pharmacology & Med Jurispr*

Vyas, B N, R B, M B Panj  
Reader  
Modi, J P, L R C P & S. Edin.,  
L F P. & S Glas Reader  
1 Demr

#### *Medicine*

Sprawson, Lt-Col C A, C I E,  
M D, B S Lond, F R C P  
Eng, I M S Prof  
Sahai, H, M.B., R.S. Panj. Lectr

#### *Obstetrics and Gynaecology*

Buckley, Lt-Col H C, F R C S E,  
M D Glas, I M S. Prof  
Siret, Miss A, M B. Calc., L M  
Rotunda, D G M Dub  
Lectr

#### *Ophthalmology*

Acharya, B. G. S., B.A, M B,  
C.M. Madras, L R C P. Lond,  
F.R.C.S. Edin, D O Ox Prof  
Misra, C. P, L.M.S. Panj. Lectr.

#### *Pathology*

[Prof.  
Stott, Lt-Col H, O B E, M D,  
B D, M R C P, D P H Lond,  
I M S Prof  
Mukerji, Capt J G, R B, L M S  
Panj Reader  
Mangalik, V S, M B, B S Lectr  
2 Demrs

#### *Physiology*

Burrige, W., M A, D M, B Ch.  
Ox, L M S S A Lond Prof  
Mathur, S N, M B, B S All. Lectr.  
2 Demrs

#### *Public Health*

Pandya, D D, R.B, L R C P &  
S. Edin, L F P. & S. Glas,  
D P H Camb Prof  
Tivedi, H G, A M I C E,  
A M I E  
Lectr (Sany Engineering).

#### *Radiology*

[Reader  
Lal, Ragunandan, M B., B S Panj

#### *Surgery*

Bhatia, R N, R B, B A, B Sc,  
M B, F.R.C.S. Prof  
Nigam, K. S., M.D. All, F.R.C.S.  
Eng, D T M Lond Reader  
Kacker, P. C, M B., F.R.C.S.  
Lectr and Regr

Pramanick, R D., B.Sc., M.B,  
B S Lectr, Anaesthetist  
Humm, P, L.D S Eng  
Lectr. (Dentistry).

## CANNING COLLEGE (ARTS AND SCIENCE)

*Principal*—S B Smith, M A Ox*Arabic*

Siddiqi, M Z, M A Patna, Ph D  
Camb Reader  
Khalil, Mohd Ibn Arab Lectr.

*Botany*

Sahni, Birbal, M A. Camb, D Sc  
Lond Prof  
Chaudhury, H P, M Sc Panj  
Lectr.

Mukerji, Lieut S K, M Sc All,  
D Sc Lond, F L S Reader  
1 Demr

*Chemistry*

MacMahon, P S, M Sc Manc,  
B Sc Ox. Prof.  
Gupta, B M, M Sc All, Ph D  
Lond, A I C, D I C Reader  
Sane, S M, B A, B Sc All, M A,  
Ph D Berlin, F C S. Reader  
Raman Nayar, M, B A Madras,  
A I I Sc (Bang) Lectr  
2 Demrs

*Economics*

Mukerjee, R. Kamal, M A, Ph D  
Calc Prof  
Mukerji, B B, M A, B L Calc  
Reader  
Dey, H L, M A Calc Lectr  
Mukerji, D P, M A Calc Lectr.  
Majumdar, D N, M A Calc  
Lectr

*English*

Sidhanta, N K, B A Camb, M A.  
Calc Prof  
Brander, L R M, M A Edin  
Reader.  
Thakurta, P G, B A Calc, M A  
Harv, Ph D Lond Reader  
Roy, F T, M A All Lectr  
Sreshta, R. R, B A, LL B Camb.  
Lectr  
Roy, C. G, M A All. Lectr  
Bhattacharya, A. J., M.A.  
Jr. Lectr.

Ameer Ali, Syed, M A., B L. Calc.  
Jr. Lectr.

Mitra, D, M A Jr. Lectr.

*History* [Prof (European H.)  
The Principal.

Mookerji, R Kumud, M A., Ph D.  
Calc. Prof. (Indian H.).

Banerji, S, M.A, L T. All, Ph D  
Reader.

Taluqdar, T N, M A Camb.

Lectr

Chatterji, C D, M A Calc Lectr

Chatterji, N L, M A All Lectr

*Mathematics* [Prof.

Strang, J A., M A, B Sc Edin.

Narayan, Lakshmi, M A, D Sc  
All Reader

Banerji, S, M A Calc. Lectr

*Modern European Languages*

Holdaway, N A, M C, B Sc  
Lond. Lectr in French \*

*Persian and Urdu*

Rehman, M.B., M.A. Panj, Ph.D.  
Camb. Reader.

Abdul Qavi Fani, Md, M A All.  
Lectr.

Iaruqi, M, M A, Dabir-i-Kamil

Lectr

Fiqai, B N, Munshi Lectr.

Rizavi, M H Syed, M A  
Lectr. (Urdu).

*Philosophy* [Prof.

Chadwick, J. A, B A. Camb.

Ahmad-Shah, E, M A. All, B Litt.  
Ox Reader.

Kali Pershad, M A All. Lectr.

*Physics*

Wali Mohammad, M.A. Panj,  
Ph D Gott., I E S Prof.

Deodhar, D B, M Sc All, Ph D.  
Lond, F P S Reader

Ray, S. N, M Sc. All. Lectr.

1 Demr.

\* Head of Department.

*Political Science*

Ram, V S, B A. California, M.A.,  
Ph.D. Harv. Reader.

Menon, V. K. N, B A. Ox. Lectr

Asirvatham, J E, B A. Mad.,  
B.D. Hart., Ph D. Edin. Lectr

*Sanskrit and Hindi*

Iyer, K A. Subramanya, M A.  
Lond. Reader

Shastri, B N, Pt M A All. Lectr

Thakur, A D, Pt M A All. „

Srivastava, S. R, M A, LL.B.

Lectr.

Bhatt, B. N., Pt B A All.

Lectr. (Hindi).

*Zoology*

Bahl, K N, M Sc, D Sc Panj,  
D Phil Ox Prof

Thapar, Sardar Govind Singh,  
M Sc Panj, Ph D. Lond. Reader

Bhatia, M. L., M.Sc. Lectr.

i Demr.

## ISABELLA THOBURN COLLEGE (WOMEN'S)

Offg Principal—Miss Enola Eno, Ph D Chic

*Economics* [Teacher

Khanna, Miss Krishna, M A

*Persian*

Baij-Nath-Fiqar, Munshi Lectr

*English*

Dimmuth, Miss M A, M A De  
Pauw Reader

*Philosophy*

Eno, Miss Enola, Ph D. Chicago  
Reader

*European History* [Reader

Vincent, Miss S I, M A Harv

*Sanskrit*

Srivastava, R, M A, LL B Lectr

## FACULTY OF COMMERCE

Das Gupta, B N, B A, A S. A A

Reader \*

Chatterji, B N, M A, B L Calc

Reader

Gupta, O P, B A Ben, B Sc Lond

Lectr

Pant, D, B Com Bom, F S S, F R E S (on leave)

Lectr

Saiyid Ahmad Husain, B Com

Tempy. Lectr

## FACULTY OF LAW

Readers (Part-time):

\*Chak, Pt. J. N, B A Ox, Barr -  
at-Law.

Husein, Hyder, B A Ox, LL B  
Dub, Barr -at-Law.

Misra, J N., B A, LL B Camb,  
M.A., LL D. Dub, Barr.-at-

Law

Hajela, K S, M A, M Sc, LL.B

All, LL M Bom, F R A S

Hasan, Ghulam, B A. Panj, LL.B.  
All

Misra, L. S, M A Camb, LL B

Camb and Dub, Barr-at-  
Law

## ORIENTAL DEPARTMENT

Maulvi Syed Ali Asghar; Maulvi Mustafa Hasan Alavi, Pandit  
G. C. Avastha

## GENERAL INFORMATION

This residential and teaching Univ. was established under an Act of the  
Provincial Legislature passed in Nov. 1920. The authorities of the Univ.

\* Head of Department.



include a Court, Executive Council, Academic Council, Committee of Reference, and Faculties.

**FACULTIES.** Arts, Science, Medicine, Law, Commerce.

**ADMISSION.** Qualifications for Degree courses: Arts or Science—the Intermediate Examn. of an Indian Univ. or of the Board of High School and Intermediate Education, U.P., and the Cambridge Higher School Certificate Examn.—Certificate "A"; Law—Degree in Arts or Science; Commerce—Commerce Diploma Certif. of Allahabad or of the Panjab; Med.—Degree in Science of All., Benares, Bom., Calc., Dacca, Delhi, Mad., Mys., Panj., Patna, or Rangoon taken with Chem. and Biol. as optional subjects, or, subject to certain conditions, the Inter. or P.Sc. Examn. of All., Alig., Benares, Nagpur, or Inter. Board of Ed., U.P.

**DEGREE COURSES** for B.A. Pass, B.Sc. Pass, B.Com., 2 yrs.; B.A. Honours, B.Sc. Honours, 3 yrs.; M.A., M.Sc., 2 yrs. or (after B.A. Hons. or B.Sc. Hons.) 1 yr., LL.B., 2 yrs.; M.B., B.S., 5 yrs.; D.Sc., 3 yrs.; Ph.D., 2 yrs. The lectures are supplemented by tutorial work, each student being assigned to a tutor who gives him personal attention and guidance in his course of study.

**DIPLOMAS.** Courses in Public Health, Teaching, Arabic, and Persian.

**FEES** for tuition for full course: B.A., Pass, or B.Com., Rs. 216; M.A., Rs. 270; M.B., B.S., Rs. 650, B.Sc. Pass, Rs. 252, B.A. Honours, Rs. 329, B.Sc. Honours, Rs. 378, M.Sc., Rs. 150 or Rs. 300, LL.B., Rs. 240, D.Sc., Rs. 675 or Rs. 750.

**RESIDENCE.** Students are required, unless specially exempted, to live in hostels.

**ADULT EDUCATION.** A system of public lectures by members of the staff and others has been started.

## THE YEAR 1927-28

**BENEFRACTIONS.** Pt. H. K. Gour, Rs. 1,300 for a schol'p of Rs. 5 p.m., Shri Mahabeerji Temple Trust, a schol'p of Rs. 5, L. R. Seth, a Cottage ward for the King George's Hospital, the Leprosy Relief Association, initial expenditure of opening a Department for treatment of skin diseases in King George's Hospital.

**DEVELOPMENTS** (a) New Buildings. Six bungalows for the Readers and Lecturers of the University constructed at a cost of Rs. 64,702. (b) New Posts. a number of Lectureships in Arts, Science, and Medicine created.

**RETIREMENTS.** H.E. Sir William Sinclair Marris, K.C.S.I., K.C.I.E., I.C.S., Chancellor.

**DEATHS.** Raja Sir Syed Abu Jafar, K.C.I.E., Member of the Univ. Court, Khan Bahadur Hina Khan; J. K. Banerji, Reader in Law.

**STUDENTS.** Total, 1530

**DEGREES.** B.A., 121; M.A., 48, B.Sc., 32; M.Sc., 24; M.B., B.S., 25, D.P.H., 6, M.D., 1, LL.B., 157, B.Com., 20.

# UNIVERSITY OF MADRAS

VISITOR—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF MADRAS.

PRO-CHANCELLOR—THE MINISTER FOR EDUCATION.

VICE-CHANCELLOR—DIWAN BAHADUR K RAMUNNI MENON, M A  
Camb

REGISTRAR—WILLIAM McLEAN, M A , B L , F C I S

LIBRARIAN—S R RANGANATHAN, M A , L T

## UNIVERSITY PROFESSORS

<i>Indian History and Archæology</i>	<i>Sanskrit</i>
Rao Bahadur S Krishnaswami Ayyangar, M A , Ph D (Calc )	C Kunhan Raja, M A , D.Phil. Prof.
<i>Mathematics</i>	<i>Indian Economics</i>
R Vaidyanathaswami, M A , D Sc Reader	P J Thomas, M A , B Litt , Ph D P S Lokanathan, M A , Dip Econ Reader
<i>Indian Philosophy</i>	
S S Suryanarayana Sastri, M A , B Sc , Barr -at-Law Reader	K C Ramakrishnan, M A Dip Econ Lectr

## GENERAL INFORMATION

This Univ., founded in 1857, has hitherto been mainly an examining body, but has since 1912 maintained a small teaching staff and organized special lectures by persons eminent in Arts and Science in Europe and India, and in 1923 an Act was passed for reorganizing it as a Teaching and Residential Univ., while enabling it to continue to exercise control over the quality of the teaching given by its constituent and affiliated colleges. The Vice-Chancellor is a whole-time salaried officer. The authorities of the Univ. include a Senate, Syndicate, Academic Council, Faculties, Boards of Studies, and a Council of Affiliated Colleges.

From the Govt. of Madras the Univ. receives an annual statutory grant of Rs. 85,500.

The following research institution is attached to the University: The Institute of Advanced Oriental Studies and Research. This provides for three sections, viz, Sanskrit, Dravidian, and Islamic. It comprises sixteen research workers and about twelve students.

Laboratories for research in Zoology, Botany, and Bio-chemistry are about to be built.

**FACULTIES.** Arts, Science, Law, Medicine, Engineering, Teaching, Agriculture, Commerce, and Fine Arts.

**ADMISSION.** The Matricn. examn. has been almost completely superseded by the School-Leaving Certif. scheme.

**DEGREES, ETC.** B.A , B.Sc., B.A. (Honours), B.Sc. (Honours), M A , Ph.D , M.Sc , D Sc ; B.Sc.Agr. ; L.T. ; B L., M L., LL.D ; M.B. and B.S., L.M. and S, B San. Sc , M.D , M.S. ; D G O. ; B E ; M O.L. (Oriental Learning).

**DIPLOMAS.** Titles in Oriental Learning (4 yrs.' course) ; Economics (part-time course—2 yrs.). **CERTIFICATES** of Proficiency in Oriental Learning (2 yrs.').

RECOGNITION of examns. of other Univs. is not granted in general terms. The Syndicate deals with each application on its merits

FEEs for Univ. examns. range from Rs. 10 to Rs. 150

RESIDENCE, ETC. Minimum cost of board and lodging for students living in European style, Rs. 50 p.m ; for Indians, Rs. 30. A Students' Club, started under the auspices of the Madras Govt. in 1919, provides inexpensive meals and facilities for games and social intercourse irrespective of caste or creed.

RESEARCH STUDENTSHIPS, tenable 2 or 3 yrs , value Rs. 75 to Rs. 100 p.m. FELLOWSHIPS, Rs. 150.

PUBLICATIONS *Calendar* (July)—vol. 1, Administration, Statutes, Ordinances and Regns., Syllabuses, vol 11, Constituent and Affld. Colls., Endowments, Graduates, *Annual Report*, *Minutes*, *Madras Univ Magazine*, *Tamil Lexicon* (under preparation)

## COLLEGES RECOGNIZED OR AFFILIATED IN DEGREE COURSES

### Arts and Science

ALWAYE, *Union Christian College* Principal—A. M Varki, M A, B.L 21 other Teachers

BANGALORE, *St. Joseph's College* Principal—Rev F Veyseyre 16 other Teachers.

CHANGANACHERRY, *St Berchman's College* Principal—Rev P. K. Matthew, M A 22 other Teachers

CHIDAMBARAM, *Sri Minakshi College.* Principal—K. A. Nilakantasastrī, M.A. 28 other Trachers.

ERNAKULAM, *Maharajah's College.* Principal—S. K. Subrahmanya Ayyar, M A., L T. 32 other Teachers

HYDERABAD, *Nizam College.* Principal, and Prof. of *English and Ancient Hist*—K Burnett, M A Ox, B C McEwen, B Sc (Ag) 23 other Teachers.

KUMBAKONAM COLLEGE (Govt.) Principal—M C. S Anantapadmanabha Rao, M A, L T 20 other Teachers

MADRAS, *Christian College.* Supported by the Church and U.F. Church of Scotland and 5 other Missionary Societies. Principal—W. Meston, M.A., D.D. Professors. *Chemistry*—E Barnes, B Sc *English Lang and Literature*—F. W. Henderson, M.A, G. Matthews, M A, B.Litt., W. L. Campbell, B A ; W. Meston, M.A., D.D. (Principal), A. J. Boyd, M.A. *History*—F E. Corley, M.A ; E. J. Bingle, B A. *Maths*—E B Ross, M A, W F. Kibble, B A. *Philosophy*—A G Hogg, M A, D Litt., A S Woodburne, M A, B D., Ph D., S. J. Theodore, M.A, B D, B Litt., B E Cornelius, M.A., B D, Ph.D. *Phys Sc*—J P Manikkam, M A, L.T., A. V. Moses, M A, Ph D *Nat. Sc.*—M S. Sabhesan, M A (Botany), C Lakshminarayanan, M.A (Zoology). 30 other Teachers.

MADRAS, *Muhammadan College* (Govt). For Muhammadans. Principal and Lectr. in *Engl.*—E. W. Green, M.A. 10 other Teachers.

MADRAS, *Pachayappa's College* For Hindus. Principal—K. C. Pillai, B.A., L T. 34 other Teachers.

MADRAS, *Presidency College* (Govt) Principal, and Prof. of *Botany*—P. F. Fyson, M.A. ; W. Erlam Smith, M A. Other Profs.: *Bot.*—M. O. Parthasarathi Ayyangar, M.A., L.T. *Chem.*—B B. Dey, D.Sc. Lond., F.I.C. *Engl.*—W C Douglas, M A., S. E. Ranganathan, M A., L.T. ; D. S. Sarma, M A., L.T

*Geol.*—C. K. Krishnaswami Pillai, M.A., M.Sc. *Hist.*—J. Franco, M.A. *Maths.*—K. Ananda Rao, B.A.; S. R. U. Savour, B.A., D.Sc., F.Inst.P. *Philosophy*—A. Chakravarti, M.A., L.T. *Physics*—H. Parameswaran, M.A., Ph.D., D.Sc.; V. Appa Rao, M.A., L.T. *Economics*—T. K. Duraiswami Ayyar, M.A., L.T. (acting). *Sansk.*—S. Kuppuswami Sastri, M.A. *Zool.*—S. M. Ramaniyam, M.A., Ph.D. 37 other Teachers.

MADRAS, *Loyola College*. Principal—F. Bertram, S.J., B.A., D.D.

MADRAS, *Queen Mary's College*. Principal—Miss de la Hey. 11 other Profs. and Lecturers and 6 Pandits.

MADRAS, *Women's Christian College*. Principal, and Prof. of *Ancient Hist.*, etc.—Miss E. McDougall, M.A., D.Litt. Vice-Principal, and Prof. of *Phys.*—Miss E. M. Coon, M.A.

MADURA, *Ameruan College* (Mission). Ag. Principal—Peter Isaac, B.A., L.T. Heads of Depts. *Engl.*—James M. Hess, M.A., B.D. *Hist. and Econ.*—A. J. Saunders, M.A., B.D., Ph.D. *Physics and Chem.*—E. M. Flint, M.A., B.Sc. 24 other Teachers.

MADURA, *The Madura College*. Principal—M. V. N. Subba Rao, M.A.

MANGALORE, *St. Agnes' College*. Principal—Sister M. Annunciata, A.C., B.A.

MANGALORE, *St. Aloysius' College* (S.J.). Principal—Rev. A. Ambruzzi, S.J., M.A., D.D. 24 other Teachers.

MANNARGUDI, *Findlay College* (Wesleyan Mission). Principal, and Prof. of *Engl.*—Rev. R. Smailes, M.A. 13 other Teachers.

PALAMCOTTAH, *St. Xavier's College*. Principal—A. Guanapragasam, B.A., S.J.

PALGHAT, *Victoria College* (Govt.). Principal—H. C. Papworth, M.A.

TINNEVELLY, *Hindu College*. Principal—P. C. Chakko, M.A.

TRICHINOPOLY, *National College*. Principal—V. Saranatha Ayyangar, M.A.

TRICHINOPOLY, *St. Joseph's College* (S.J.). Open to all creeds and classes, but primarily for R.C.'s. Principal—A. Bonhoure. Prof. of *English*—C. Leigh. Profs. *Bot. and Phys.*—E. Gombert. *Chem.*—A. Haas, S.J.; A. Camboulives. *Econ.*—P. Carty. *Hist.*—A. Saldanha and J. Steenkiste. *Maths.*—C. Pruvôt. *Phys.*—D. Honoré, P. E. Subrahmanya Aiyar, M.A. *French*—J. Bourdot. *Latin*—The Rector. 30 other Teachers.

TRICHINOPOLY, *Bishop Heber College*. Principal and Warden—M. Koilpillai, M.A., L.T. (Ag.). 27 Profs. and Lectrs.

TRICHUR, *St. Thomas' College*. Principal—Rev. John Palocaien, M.A.

TRIVANDRUM, *Maharaja's College of Arts*. Founded 1924. Principal—Rao Bahadur K. V. Rangaswami Ayyangar, M.A. 11 Profs. and Lectrs., 13 Tutors and Pandits.

TRIVANDRUM, *Maharaja's College of Science*. Principal, and Prof. of *Botany*—J. Pryde, M.A., B.Sc., F.L.S. (Ag.). 43 other Teachers.

TRIVANDRUM, *Maharaja's College for Women*. Principal—Miss E. C. Carrapiett, M.A. (Ag.).

### Teaching

MADRAS, *Teachers' College* (Govt.). Principal—H. Champion, M.A. 22 other Teachers.

MADRAS, *Lady Willingdon Training College*. Principal—Miss J. M. Gerrard, M.A. 17 other Teachers.

MADRAS, *St. Christopher's Training College*. Principal—Miss K. N. Brockway, M.A.

TRIVANDRUM, *Training College*. Principal—Rao Bahadur K. V. Rangaswami Ayyangar, M.A. 11 other Teachers.

### Law

MADRAS, *Law College* (Govt) Principal—M Ratnaswami, M.A., Barr.-at-Law 12 Asst. Lecturers.

TRIVANDRUM, *Maharaja's Law Coll.* Principal—E. Jacob John, B.A., B.L. Senr. Profs.—M. K. Govinda Pillai, B.A., B.L., M. K. Narayana Pillai, B.A., Barr.-at-Law. 8 Junr. Profs.

### Medical

MADRAS, *Medical College* (subject to the authority of the Surg.-Genl. with the Govt. of Mad.). Its certifs. are recognized by the Colls of Surgs. of Eng, Scot, and Irel Principal—Lt.-Col C. A. F. Hingston, C.I.E., O.B.E., M.R.C.S., I.M.S. Other Professors *Anat*—Rao Sahib T. Sundara Reddy, F.R.C.S.I. *Hyg*—Capt A. M. V. Hesterlow, I.M.S. *Therap.*—M. R. Guruswami Mudaliyar, M.D., C.M. *Med Jurispr*—Lt.-Col W. C. Gray, I.M.S. *Midw.*—The Principal. *Ophth*—Lt.-Col. R. E. Wright, I.M.S. *Path*—Capt. P. N. Basu *Physiol.*—Major G. E. Malcomson, M.D., D.P.H., I.M.S. (on other duty), B. T. Krishnan. *Surg*—Lt.-Col E. W. C. Bradfield, C.I.E., O.B.E., M.S., I.M.S. *Biol.*—J. S. Rao, M.A. *Chem*—Major C. Newcomb, I.M.S. *Bio-Chem*—A. S. Mannadi Nayar, M.B., B.S., Ph.D. *Op. Surg*—Major K. G. Pandalai, F.R.C.S., I.M.S. *Med*—Lt.-Col. G. E. Malcomson, I.M.S. *Bact*—P. S. Ramakrishnan, L.R.C.P. & S. *Dental Surg.*—J. B. Chenoy *Mental Dis.*—H. S. Hensman, L.R.C.P. *Venereal Dis.*—D. Kanasabhesan, M.S. *Diseases of Nose, Ear, and Throat*—P. V. Cheryan, M.B. and B.S., F.R.C.S.E. *Pharmacology*—J. C. David, M.B. 25 Assts

### Engineering

MADRAS, *College of Engineering* Principal—G. Nagaratnam Ayyar, B.A., B.E. Profs. *Civil E*—K. C. Chakko, D.Sc. *Mech E*—T. S. Venkataraman, B.E. *Elec E*—P. Subba Rao, B.A., A.M.I.E.E. *Maths*—K. R. Ramaswami Ayyangar, M.A., L.T. *Technical Chem*—P. Narayana Goud, M.A., B.Sc. (on leave), M. Damodora Kini (Ag). 19 Instructors

### Agriculture

COIMBATORE, *Agricultural College and Research Institute*. Principal—C. Tadulingam Mudaliyar, F.L.S., and 24 other Teachers and Investigators.

### Oriental Learning

One Sanskrit College in Madras and fourteen in other towns are recognized as qualified to provide instruction for the Oriental Titles.

## THE YEAR 1927-28

BENEFACTIONS. Rs. 4,893 towards Lectureships, Studentships, etc.

STUDENTS. Full-time: total, 16,585.

DEGREES. M.L., 8, B.L., 278; M.B. and B.S., 41; L.M. and S., 30; B.E., 36; B.Sc., 8; B.Sc.Ag., 8; L.T., 190; M.A., 108; B.A., 1560; Titles in Oriental Learning, 70, Diploma in Economics, 10.

# UNIVERSITY OF MYSORE

CHANCELLOR—H H. THE MAHARAJA OF MYSORE.

PRO-CHANCELLOR—H.H. SRI NARASIMHA RAJA WADIYAR, G C I E ,  
Yuvaraja of Mysore

VICE-CHANCELLOR—RAJATATRAPRAMIA SIR BRAJENDRA NATH SEAL,  
Kt, M A , Ph D , D Sc

REGISTRAR—B M. SRIKANTIA, M.A., B L

LIBRARIANS—N NARASIMHAMURTHI, M A , B L , ARTHASASTRA  
VISARADE R SHAMA SASTRI, B A , Ph D , M R A S

(U) = Univ. Professor

## PROFESSORS, ETC.

### *Archæology*

Sastri, R Shama, B A , Ph D ,  
M R A S Director

### *Botany*

Sampatkumaran, M A , Ph D ,  
S M Chic Prof

1 Asst. Prof , 2 Demrs

### *Chemistry*

Sanjiva Rao, B , M A , Ph D  
Lond Prof

3 Asst. Profs and 3 Lectrs.

### *Education*

Krishnaia, G S , B A Mad ,  
M A , Ph D Colum

1 Asst Prof , 1 Lectr

### *Engineering*

Lakshminarasappa, S H , B A ,  
C E , B M E , B C E , B Arch  
(Principal, College of Engin-  
eering) Prof. (Civ. E )

Ramaswamy, E K., B Sc Lond.,  
A C.G.I. Prof (Mech. E )

7 Asst. Profs , 3 Lectrs , 3 In-  
structors, 1 Lab Asst

### *English*

Mackintosh, A. B., M A. Ox , M A  
St. And Prof. (U)

Rollo, J. C., B A Ox , M A Glas.  
Prof. (Principal, Maha-  
rajah's College) (U).

Sell F R., M A. Ox. Prof (U).

McAlpine, E. G , M A Edin  
Prof (U).

4 Asst Profs , 2 Lectrs , 5 other  
Teachers

### *French*

Cochet, Father J , B A. Lectr

Collart, Father R M Lectr

### *Geology*

Sampat Iengar, P , M.A.  
Prof (U).

2 Asst Profs , 2 Demrs.

### *Hindustani, Persian, and Arabic*

Aga M Abbas Shooshtry Prof  
1 Lectr , 1 Munshi, 1 other Teacher.

### *History, Economics, and Political Science*

Prof (U)

Venkateswara Aiyar, S V , M A ,  
L T Prof (U)

Sri K D Rukminiamma, B.A.  
Prof.

Krishna Aiyengar, M H , M A ,  
D Lit. Lond Prof.

3 Asst Profs , 2 Lectrs., 2 Tutors

### *Kannada*

Sukarha, B. M , M A., B L.

Hon Prof.  
Venkannaia, T. S , M.A , LL B.  
Prof.

Krishnasastry, A R , M A.

Asst. Prof

4 Pandits, 1 Lectr

*Mathematics and Statistics* [Prof

Iyengar, K. S. K , B A. Camb

Madhava, K B , M A Prof

4 Asst. Profs , 5 Lectrs , 3 other Teachers.

*Philosophy, Psychology, and Logic*

Wadia, A R , B A. Camb , Barr - at-Law Prof (U)

Gopalaswamy, M V , B A , B Sc., Ph D Lond Prof

3 Lectrs and 2 other Teachers

*Physics*

Metcalfe, E P , D Sc Lond , F Inst P (Principal, Central College) Prof (U)

Venkatcsachar, B , M A Prof (U)

3 Asst Profs , 2 Lectrs , 2 other Teachers

*Sanskrit*

Srinivasachar, D , M A Prof

1 Asst Prof , 1 Lectr , 1 Tutor , 3 Pandits

*Tamil and Telugu*

4 Pandits.

*Zoology* [Prof

Narayana Rao, C R , M A , L T.

1 Asst Prof , 2 Demrs

## Medicine

Subba Rao, S , B A , M B , C M , L R C P , D P H

Prof of Surgery and offg Principal

Subba Rao, A , B A , D Sc Lond ,

F.R.M.S Prof. of Physiology

Seshachalam, T , L M S , L.R.C.P.

Prof of Anatomy

Krishnaswami Rao, C , B A , M.B ,

C M , M R C P Lond

Prof. of Medicine

Mascarenhas, J. V., M B , C M ,

D P H , D T M.

Prof of Hygiene

Srinivasa Rao, M , M A , M D.

Hon Prof of Bio-Chemistry.

Sambasivan, B. G.

Prof. of Pathology

Albuquerque, Miss, M C , L R C P

Lond , M R C S Eng , L M

Rotunda Prof of Midwifery

Narayana Rao, B K , B A , M B ,

C M , D P H

Prof of Ophthalmology

Noronha, F., M B , C M , D P.H.

Prof of Mental Diseases.

Lecturers (one in each subject) in

Mat. Med , Jurisprudence,

Vaccination, Dental Surgery,

Infectious Diseases, and Oto-

rhino-Laryngology

4 Demrs. in Anat and Physiol.

1 Demr in Pathol

1 Demr in Surgery

## GENERAL INFORMATION

This Univ. was founded in 1916 with two constituent Colleges, the Central Coll., Bangalore, and Maharaja's Coll., Mysore, which had for 25 yrs. been affiliated to the Univ. of Madras. To these have since been added the Women's and Professional Colleges. The executive government is vested in a Council of from 9 to 15 members, comprising the Vice-Chancellor, Director of Pub. Instrn. in Mysore, Principals of Constituent Colls , Deans of Faculties, of Arts and Science, and members appointed by the Chancellor, or, if Govt. so direct, elected by the Senate from among its members. The Senate is charged with the organization of instruction, etc It consists of from 40 to 70 members, including the Council, the Univ Profs., and persons nominated by the Chancellor or elected with his approval. The capital cost of all the Univ.'s buildings amounts to Rs. 12,04,955

**LIBRARIES.** Univ., 16,806 vols. ; Colleges, 30,588 ; Sansk. and Oriental, 12,818 vols. and 10,205 MSS.

**FACULTIES.** Arts, Science, Medicine, Engineering and Technology.  
**TERMS :** Jan.-April, July-Dec.

**ADMISSION** to B A or B Sc. courses is normally by Intermediate examn. in English, a second language, and three other subjects. Candidates prepare for this by two years' study in Intermed. Colleges after completing the ordinary High School course. Admission to the B.E. course is by the Inter. Examn. in Science (leading to Eng ) The B Com. course suspended for the present

**DEGREE COURSES.** 2 yrs.—B.A. or B Sc (Pass) ; 3 yrs.—B.A. or B Sc. (Hons) ; 4 yrs.—B E. (passed candidates will be eligible to take the degree after a year's practical course in a recognized firm) ; 5 yrs.—M B , B S ; graduate course for M.A.—2 yrs, for B.T 1 yr after the B A or B Sc Courses for M A and M.Sc in Mathematics, 2 yrs. after B.A or B.Sc. The D Litt., D.Sc , and LL D are Honorary.

**RECOGNITION OF DEGREES** and examns. of other Univs. : (1) The B.A. Degree of other Indian Univs. is deemed equivalent to the B.A. of this Univ. and admits to its M.A courses, provided the degree examns have been passed in cognate subjects. (2) The B.A. or B Sc. of other Indian Univs is accepted for admission to the B.T. course. (3) The Interim. Examn. of any Indian Univ.=the 1st Year Certif. Examn. of this Univ. and admits to the 2nd year B.A. or B.Sc class under certain conditions (4) The B.A , B.Sc., M.A., M.Sc., and B.L. of the Dacca Univ.=the corresponding degrees of this Univ and admit to corresponding privileges. (5) The degrees of the Lucknow Univ =the corresponding degrees of this Univ. (6) The B.Sc. of the Aligarh Muslim Univ.=the B.A of this Univ for admission to higher courses in the subjects studied for the B.Sc. (7) B A Delhi = B A Mys

**RECOGNITION BY OTHER UNIVERSITIES** Calcutta (1) B A. and B.Sc. Mysore are admitted to Calcutta M.A. and M.Sc courses equally with B A. and B Sc Calc ; (2) holders of Mysore first year Certif. (with Physics, Chem , and Maths, or Zool , Geol , and Bot.) are admitted to Prelim. Scientific M.B. of Calcutta equally with students who have passed Inter.Sc. Calc.

Bombay (1) Mysore B A. are admitted to Bombay LL.B. course equally with B A. Bom., (2) Mysore first year Certif.=corresponding examn of an Arts College affiliated to Bombay , (3) for admission to Bombay B.Com degree examn. graduates in Arts or in Commerce of Mysore are on same footing as graduates in Arts or in Commerce of Statutory Indian Univs. , (4) the B Sc. examn. of the Mysore Univ. is recognized as equivalent to the B Sc examination of the Bombay Univ. for the purpose of admission to the M Sc examn. of that University.

Madras : (1) recognition similar to Bombay (1) ; (2) Mysore B.A. (Science) and B Sc who have taken Physics, Chem., Biol., or Maths. for degree course are admitted to Madras medical courses.

Panjab : Mysore B.A. and B.Sc. are admitted to post-graduation study equally with B A. and B.Sc. Panj.

Benares : (1) recognition similar to Calcutta (1) ; (2) First Year Cert. Examn.=Interm, Benares ; (3) Mysore Entrance=Benares Admission ; (4) Mysore First Year with Maths., Physics, and Chem. is accepted for admission to B Sc. Engin., Benares.

Mysore degree examns —those of Lucknow and Allahabad.

Dacca : Mysore degree =corresponding Dacca degree for admission to



courses of study for degrees. This does not apply necessarily to degrees with honours.

Aligarh : all Mysore examns. are recognized. See also Appendix XXIII. for recogn by the Home Univs.

The Univ. has been approved by the Council of Legal Education for purposes of admission to the Inns of Court of London.

INSPECTION OF SCHOOLS recognized by the Univ. is done by Profs. deputed by the Council.

SCHOLARSHIPS for graduates, 6 of Rs. 20 p.m and 6 of Rs 15, including several for students belonging to "backward communities."

FEES for courses for Bachelorship, Rs 60 p a. (B E , Rs 100) ; M.B., B S., Rs. 200.

RESIDENCE. Hostels at Colleges Cost of living ranges from Rs. 252 to 312 p a at Mysore ; Rs 276 at Bangalore

An APPOINTMENTS BUREAU and a STUDENTS' INFORMATION BUREAU are maintained.

PUBLICATION *Calendar* (Oct ), including examn papers

## THE YEAR 1927-28

BENEFACTIONS Messrs S Raja Iyengar, Rs 2,000, Shankarappanavan Swappa, Rs. 4,000, V Subrahmanya Iyer, Rs 2,000, B M Srikantha, Rs 1,000, B. Ramgiasgar, Rs 1,002 , B S Krishnaswamy Iyaspter, Rs 5,000 ; Suryanarayana Shetty, Rs 1,000

RETIREMENT. M Hiriyanna, Prof of Sanskrit

HONORARY DEGREE. D.Sc.—H.E. the Rt. Hon'ble Edward F L. Wood, Baron Irwin

STUDENTS. Full-time : total, 1735, including 179 graduates.

DEGRFES M A , 21 , B A , 154 , B T , 23 , B Sc , 74 , B E , 36

# NAGPUR UNIVERSITY

VISITOR—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE CENTRAL PROVINCES.

VICE-CHANCELLOR—RAI BAHADUR SIR B K BOSE, K C I E, M A, B L.

TREASURER—RAO BAHADUR V. M. KELKER, M A.

REGISTRAR—M A MOGHE, M A, M Sc, F Z S

## UNIVERSITY COLLEGE

LAW COLLEGE, NAGPUR Principal—V Bose, B A, LL B Camb, Barr -at-Law Lectrs—A V Wazalwai, B A, LL M Bom, K. K. Gandhe, B A, LL.B. All, D. W. Kathaley, B A, LL.M, Advocate, and U D Pathak, M A, LL.M

## OTHER COLLEGES ADMITTED TO THE PRIVILEGES OF THE UNIVERSITY

MORRIS COLLEGE, NAGPUR (M).\*

HISLOP COLLEGE, NAGPUR (H).\*

ROBERISON COLLEGE, JUBBULPORE (R).\*

VICTORIA COLLEGE OF SCIENCE, NAGPUR (V) \*

SPENCE TRAINING COLLEGE, JUBBULPORE (T).\*

KING EDWARD COLLEGE, AMRAOTI (K).\*

AGRICULTURAL COLLEGE, NAGPUR (A).\*

## TEACHING STAFF

<i>Agriculture</i>		(A)	Ghani, M A, M A, M Litt Camb.
Allan, R G, M A, Dip Ag Camb.			(M)
Phatak, B R, B Ag (Poona)	(A)		
Biswas, N. K, L Ag	(A)		
Subba Rao, B, L Ag	(A)		
Kartar Singh, L Ag	(A)		
Mishra, S. K, L Ag	(A)		
Dhanna Lal, L Ag	(A).		
<i>Arabic and Persian</i>			
Aga-Hyder-Hasan, Syed, M A.			
All (also Eng)	(K).		
Taqi, S G, M A	(R).		
Iqbal Hussain, Quazi Syed, M A.			
Panj.	(M).		
<i>Botany and Zoology</i>			
Bhatia, G S, M.Sc Punj.	(A).		
Gideon, C A, B Ag Bom	(A).		
Bhattacharya, P R, M Sc All	(H)		
Mahla, D N, B A Ox, F L S	(A)		
Karve, J N, M Sc Bom	(H).		
Dastur, J. F, M Sc, D I C.	(A).		
Shrivastava, K P	(A).		
Dave, B B, L Ag	(A).		
Nair, P. D, B A, L Ag	(A).		
Varadpande, K V, M Sc	(H).		
Sontake, K R., B Sc.	(H)		
Verma, N S, B Sc	(H).		

\* (M), (H), etc. \* symbols for reference to the Colleges.

*Chemistry*

- Chakravarti, D. N., M Sc All (V)  
 Tamhankar, G R, M Sc (R).  
 Becket, R H, C I E, B Sc Lond (V)  
 Godbole, S N, M Sc All (V)  
 Surey, L S, M Sc All (K)  
 Kalc, V D, B Sc All (H)  
 Gokhale, L K, M Sc (R)  
 Chandorker, D V, M Sc All (V)  
 Mishra, R. N, M Sc. (A)  
 Iyer, A R P., B A. (A)  
 Bal, D V, L Ag (A)  
 Kayasth, R N, M Sc, B Ag Poona (A)  
 Kulkarni, J W, M Sc (Physics also) (K)  
 Paranjpe, D R, M Sc (Physics also) (V)

*Economics*

- McFadyen, Rev J F, M A Glas, D D (English also) (H)  
 Nanavati, M. H, M A, LL B Bom (K)  
 Naidu, V S, M A Mad (R)  
 Raghaviah, W B, M A Mad (H)  
 Sen Gupta, A C, M A Edin (M)  
 Dadachanji, B E, M A Bom (M)  
 Seth, H C, Ph D Lond (M)

*Education*

- Macnee, E A, M A, Principal (on leave) (T)  
 Ghosal, S C, B A, B Sc, LL B. All (T)  
 Hari Ram, B A (T)  
 Mitra, N N, B Sc, L T All (T)  
 Kanetkar, G G, M A (I)  
 Danielson, A J (T)

*English*

- Nascar, P N, M A All (M)  
 Verma, Sheo-Prasad, M A, Ph D (R)  
 Cheshire, F M, B A Camb (M).  
 D'Souza, L P, M A (English) (K).  
 Ganguli, N, M A All (English) (M).

- Chordia, S. S., M.A. All. (English) (M).  
 Guha, R C, M A Dacca (M).  
 Madan, Gopal, M A All. (English) (M)  
 Karkarey, S B., M A, LL B. All (English) (A).  
 Ghosh, M, M A All (English) (R).  
 Mitra, M N, M A Dacca (R)  
 Bobb, E V, M A All (K).

*Entomology*

- Khare, J. L., F E.S Pusa. (A).

*History*

- Hunter, G. R, M A Ox (M).  
 Watchmaker, B. K., M A (R)  
 Tostevin, F P, M A Ox (English also) (K)  
 Fernandes, T, M A All (K)  
 Gardiner, T W, M A Camb (English also) (H)  
 Hayland, J S, M A Camb (H)  
 Gadre, B N, M A All (H).  
 Hirde Narayan, M A Panj (M)  
 Power, B L, M A All (R).  
 Sinha, H N, M A All (M)  
 Paul, J N W, M A All (R)

*Modern Indian Languages*

- Pendse, S D, M A, M O L Panj. (Marathi) (H).  
 Banhatti, S N, M A, LL B Bom (M)  
 Pathak, R D, M A Ben (R)

*Law, v supra—Univ College**Mathematics, v. also English*

- Belckar, S B, M A Bom. (M).  
 Mone, T V, M A (R).  
 Garde, G K, M A (H).  
 Dhar, S C, D Sc Calc. (V).  
 Patel, K P., M A Bom. and Lond (English also) (R).  
 Panday, K D, M A. All (K)  
 Iyer, K S S, B E. Mysore (Survey also) (A)  
 Raghavachariar, V, M A. Mad (V).

<i>Modern European and Classical Languages</i>	Agnihotri, G. P., B.Sc. All. (Maths. also) (H).
Members of the staff who also teach other subjects.	Deoras, R. S., M Sc. All. (V).
	Thatte, V. N., M Sc. All (K).
	Makoday, G. S., M Sc. (R).
<i>Philosophy</i> , v. also Engl.	Dabadghao, V M, M Sc (V)
Rowlands, W. S., B A Ox	Kulkarni, K K, B Sc All (Chem. also) (H).
(English also) (R)	Chinchalkar, S W, M Sc Nag (V)
Moses, D. G., B.A. Mad (H)	<i>Sanskrit</i> , v. also English
Ramanthan, P S, M A Mad (K)	Telang, H. K. S., M.A. (K).
Raju, J B, M A, B Sc Ox. (M)	Somalwar, S G., M.A. All (H).
Mukerji, J N, M A Calc (M)	Rampratap Shastri (M)
Robertson, A, M A Aberd (H)	Mirashi, V V., M A. Bom (M).
Jwala Prasad, M A. All (R)	Jam, H B, M A, LL B All (also English) (K)
Jha, V S, B A, Ph D Lond (M)	Navlekar, N R, M A All (R)
<i>Physics</i> , v also Chem.	<i>Veterinary Science</i>
De, M. L., M A. Calc. (R)	Shukla, P A (A)
Matange, D. G., M Sc All (R).	
Owen, M, M Sc. (V)	
Mukerji, Umadas, M Sc (V).	

## GENERAL INFORMATION

The University was established in 1923. The colleges (except the Agricultural College) were formerly affiliated to the Univ. of Allahabad. The authorities of the Univ. are the Court, Executive Council, Academic Council, Faculties, and Boards of Studies. The Univ. does not hold a Matriculation Examn., but admits students who have passed (a) the Final Examn. of the Central Provinces Board of High School Education, or an examn. recognized (with the consent of the Govr.-Genl) as equivalent thereto, (b) the Matricn. Examn. of an Indian Univ.

**FACULTIES** Arts, Science, Law, Education, and Agriculture

**DEGREES.** B A., B Sc., B Ag., B T., M A., M Sc., Ph D, D.Sc., LL.B, LL M, LL D

**PUBLICATIONS.** *Calendar, Annual Report, Annual Book of Minutes.*

## THE YEAR 1927-28

**BENEFACTIONS** Seth Jamnadas, Rs 6,500 for a Schol'p, Raja Ramanuj Pratap Singh Deo, Rs 2,000 for gold medals; W. R. Pandit, Rs 5,000 for a silver medal; Rai Bahadur N. G. Sarkar, Rs. 1,300, Korea Durbar, Rs. 5,000 for library books.

**THE STUDENTS' INFORMATION BUREAU**, with the Assistant Registrar as Secretary, replaced the C. P. Provincial Students' Advisory Committee

**UNIVERSITY LIBRARY** in process of formation, about 6000 vols.

**STUDENTS** Full-time total, 2329, including 490 graduates.

**DEGREES.** B.A., 91; M.A., 22, B.Sc., 40, M.Sc., 6; LL.B., 96, B T., 20.

# OSMANIA UNIVERSITY, HYDERABAD, DECCAN

PATRON—HIS EXALTED HIGHNESS THE NIZAM, G C S I, G. B E

CHANCELLOR—MAHARAJA SIR KISHAN PERSHAD BAHADUR, Yamin-  
us-Saltanat, G C I E

VICE-CHANCELLOR—NAWAB WALI-UD-DAULA BAHADUR.

REGISTRAR—H. A. ANSARI, B A. All.

CONSTITUENT COLLEGE—Osmania University College. PRINCIPAL—  
M A R KHAN, B Sc Lond, A R C Sc

## PROFESSORS, ETC.

### *Botany*

Saiduddin, B Sc Bom.

Asst Prof (on study leave).

S Rahimullah, B Sc Alig

Acting Asst Prof

### *Chemistry*

Muzaffaruddin Qureshi, M Sc.

Panj, Ph.D Berlin Prof

Mahmood Ahmed Khan, B Sc All

Asst Prof

I Demr

### *Economics*

.....

Prof.

Mohd. Elhas Burney, M A, LL.B.

All

Asst Prof

H Rahman, M.A, LL.B All.

Asst Prof.

Syed Jafar Hasan, Ph D Heidel-

berg

Asst Prof

### *English*

H. Ali Khan, B A. Ox.

Prof.

Speight, E E., B.A. Lond. Prof.

Syed Abdul Latif, B A. Mad ,

Ph.D. Lond.

Prof.

.....

Asst Prof

S D Ramchandran, B A., L.T.

Mad.

Asst. Prof.

### *History*

Haroon Khan Sherwani, M A. Ox.

[Prof.

Prof.

.....

Ibn-i-Hasan, M.A. All. Asst Prof.

Mohd. Jamilur Rahman, M A.

Panj

Asst Prof.

K. C. Roy Saksena, M.A All.

Asst Prof.

Abdul Majid, M A.

Asst Prof

Mirza Ali Yar Khan, B A Ox.

Asst Prof.

### *Languages (Ancient and Modern)*

..... (Urdu)

Prof

Abdul Haq, B Litt, D Phil. Ox

(Arabic)

Prof.

Mohd Nizamuddin, Ph D Camb

(Persian)

Prof

### Asst. Profs :

Syed Ghulam Nabi (Arabic)

Abdul Hai (Arabic).

Syed Ibrahim (Arabic)

Abdul Hamid Khan (Persian).

Qari Sayid Kalimullah Husain,

M A., LL B (Persian)

Syed Sajjad Husain, M.A. All.

(Urdu).

..... (Marathi).

T. R. Rama Rao, B.A. Mad. (Ka-  
narese).

R. Subba Rao (Telugu).

Hari Har Shastri (Sanskrit).

Dhareshwar, G., B A. (Sanskrit).

Mirza Ali Yar Khan, B A Ox.

(French).

Syed Jafar Hasan, Ph D Heidel-  
berg (German)

### *Mathematics*

Quazi Mohd Husain, M A Panj ,  
B A , LL B. Camb. Prof.  
Kishan Chand, M.A. Camb. Prof  
Sh Barkat Ali, M.A. Asst Prof.  
Khwaja Mohiuddin, M A Mad  
Asst Prof

### *Morals*

Zahiruddin Ahmad, D Litt Egypt

### *Philosophy*

Khalifa Abdul Hakim, M A.,  
LL B Panj , Ph D Heidel-  
berg Prof  
Abdul Bari Asst Prof.  
M W Rahman, M A Panj  
Asst Prof

### *Physics*

Abdur Rahman Khan, B Sc. Lond  
Prof

Wahidur Rahman, B Sc Calc.  
Prof  
Nasir Ahmed, M A , B Sc All  
Asst. Prof.

1 Demr.

### *Sociology*

Syed Jafar Hasan, Ph D Heidel-  
berg Asst Prof

### *Theology*

Manazir Ahsan Gilani Asst. Prof

### *Zoology*

Babar Mirza, B Sc. (on study  
leave) Asst Prof.  
Abdul Bari, B Sc All.  
Acting Asst. Prof.

### **Faculty of Muslim Theology**

Abdul Qadir Siddiqi Prof.

### *Asst Profs*

Sher Ali (Philosophy of Islam).  
Mufti Abdul Lateef (Quran).  
Shah Mustafa Qadiri (Islamic  
Law)  
Abdul Wasay (Traditions)  
Syed Ahmed Husain (Logic)  
. . . . . (Koranic Exegesis).  
Abdul Maqtadir (Moslem Law)

### **Faculty of Law**

Hosain Ali Mirza, Barr.-at-Law  
Prof.  
Akbar Ali Musavi, B A , LL.B.  
Bom  
(On study leave) Asst Prof.  
Alauddin Ahmad, B A Ox , Barr -  
at-Law Acting Asst. Prof.

## OSMANIA MEDICAL COLLEGE

PRINCIPAL—Major Farhat Ali, B A , M B , Ch B Edin

PROFESSORS—Dr S. V. Hardkar, M D Edin (Physiology)

Dr Brij Mohan Lal, M B , B S (Anat)

## GENERAL INFORMATION

The University was established by a Firman (Order) of H E H the Nizam in April 1917. Actual tuitional work began in Aug 1919, with the opening of the College. It differs from the other Univs. of India in that instruction throughout the college courses is imparted through the medium of Urdu, English being taught as a compulsory Second Language, while in other Univs the medium of instruction is English. The Bureau of Translation which came into existence in Sept. 1917 has provided in Urdu all books required for the Intern and B.A. exams. The executive government of the Univ. is in the hands of a Council consisting of 11 members. The organization of instruction rests with the Faculties and the Senate, which consists of from 40 to 60 members, including the Council, Univ. Profs., and representatives of graduates and Faculties. The Univ. is entirely financed by the State at an annual cost of £93,570.

**LIBRARY.** 23,116 vols, 833 MSS. The Staff have also access to the large Asafia Library.

**BUREAU OF TRANSLATION.** Curator, Md Enayatullah, B A ; 17 Translators, Assts. and Advisers. Books published, 126 ; in preparation, 138.

**FACULTIES.** Arts (including Science), Law, Islamic Theology, and Medicine.

**TERMS.** July to Dec and Jan to April

The Univ holds a MATRICULATION examn, but the Matricn. examns. of other Univs, the Senior Oxford and Cambridge Local examns and the State H.S L C. examn are accepted as equivalent. The B.A. courses extend over 4 yrs, with an Interim examn. at the end of 2 yrs. The Interim examn of other Indian Univs is accepted as equivalent to this. M.A. and LL B courses cover each 2 yrs after graduation. The B A in Theology requires a 4 years' course in English, Philosophy, and Muslim Theology. The M.B., B S. courses require 5 years.

**FEES.** Interim—Rs. 60 p a.; B A.—Rs. 80 p.a.; M.A.—Rs. 100 p.a.; LL.B.—Rs 80 p.a M B, B S—Rs 100 p.a.

**RESIDENCE.** 4 hostels attached to the College. Cost of living about Rs 180 p a.

**PUBLICATIONS.** *Calendar, Annual Administration Reports.*

## THE YEAR 1927-28

**NEW DEPARTMENTS AND POSIS** The Senate sanctioned a separate Faculty for Science as distinguished from Arts. An Asst. professorship in German, Economics, and Sociology was created

**DEATHS** Maulvi Wahiduddin Sahib, Prof of Urdu, and Maulvi Sibghatullah, Asst. Prof of Theology

**EXTENSION LECTURES** Prof Hadı Hassan of Muslim Univ, Aligarh, Prof P Sheshadri of the Benares Hindu Univ., and Dr John William Graham, were invited to give lectures.

**HONORARY DEGREE** LL D.—Sir Akbar Hydari.

**STUDENTS** Full-time, 776, including 104 graduates.

**DEGREES** B.A (Arts and Sc), 62, B.A. (Theology), 3; M.A. (Arts), 3; M A. (Theology), 1; LL B., 33.

## THE UNIVERSITY OF THE PANJAB, LAHORE

PATRON—H E THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE PANJAB.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—The Hon.  
Sir GEOFFREY FITZHERVEY DE MONTMORENCY, M.A., K.C.I.E.,  
K.C.V.O., C.B.E., I.C.S.

DEAN OF UNIVERSITY INSTRUCTION—A C. WOOLNER, M.A., C.I.E.,  
F.A.S.B.

REGISTRAR—P N DUTT, B.A., R.B.

JOINT REGISTRAR—ISHWAR DAS, M.A., LL.B.

### TEACHING STAFF

[(U.)=maintained entirely by the Univ.]

<i>Arabic</i>		<i>Economics</i> [Prof (U)]	
Md. Shafi, B.A. Camb, M.A.		Myles, W. H., M.A. Edin.	
	Prof. (U).	College Profs co-operating.	
Mohammad Iqbal, M.A., Ph.D.		Sondhi, G. D., M.A., I.E.S.	
	Prof	Paustian, P. W., M.A.	
Sadr-ud-din, D.Litt.	Lectr	Lucas, E. D., M.A., D.D., Ph.D.	
Asghar Ali, M.O.L.	Lectr	Bhalla, D. N., M.A.	
Najm-ud-Din	Lectr		
<i>Botany</i>		<i>Mathematics</i> [Prof (U.).]	
Shiv Ram Kashyap, B.A. Camb.,		Rao, C. V. H., B.A. Camb, M.A.	
M.Sc., Rai Sahib, I.E.S.	Prof.	Chowla, G. S., M.A. Camb	Prof.
Chaudhuri, H., D.Sc.	Reader (U).	Devi Dyal, B.A.	Lectr
Mehr Chand Sethi, M.Sc.	Lectr	Hem Raj, M.A.	Lectr
Mohan Lal Sethi, M.Sc.	Lectr	Samuels Lal, P., M.A., B.Sc.,	
Amar Nath Sawhney, M.Sc.		F.R.A.S. (Reader in Astro-	
	Demr (U)	nomy)	Lectr
		Ganguly, A. N., M.A.	Lectr.
		Das Gupta, S. W., M.A.	Lectr.
		Lal, L. M., M.A.	Lectr
		Mehr Chand Suri, M.A.	Lectr.
<i>Chemistry, Physical</i>		<i>Persian</i>	
Bhatnagar, S. S., D.Sc.	Prof (U.)	Md Iqbal, M.A., Ph.D.	
Dunnicliff, H. B., M.A., Sc.D.,			Prof (U.).
F.I.C., I.E.S.	Prof	Maitra, K. M., M.A. Calc.	Lectr.
Yajnik, N. A., M.A., A.I.C.	Lectr	Fazl-i-Haqq, Q., M.A.	Lectr.
Ram Singh, M.Sc.		Ismail, M., M.A. Calc.	Lectr.
	Demr. (Org. Chem) (U.).	Abdul Aziz, M.	Lectr.
Balwant Singh, S., M.Sc.		Mahmud-Shirani	Lectr.
	Demr. (Inorg Chem) (U.).		
Mathur, K. N., M.Sc.			
	Demr. (Phys. Chem.) (U.).		



*Sanskrit*

Woolner, A. C , M.A. Ox.  
 P'pal, Oriental Coll. (U.).  
 Lakshman Sarup, M.A., D.Phil.  
 Ox. Prof.  
 Raghubar Dayal, M.A , M O L.  
 Lectr.  
 Gulbahar Singh, M A , LL B. ,,  
 Sarkar, M. K , M.A. Lectr.  
 Veda Vyasa, M A Lectr.

*Zoology*

Matthai, G , M.A., I.E.S. Prof.  
 Diwan Anand Kumar, M A Camb.  
 Reader (U).  
 Sondhi, G , M.Sc Reader (U).  
 Vishwa Nath, Dr , M Sc , Ph D  
 Lectr.  
 Arora, G L , M Sc. Demr (U).  
*Astronomy* [Reader.  
 Lall, P S., M.A , B Sc , F R A S.

## UNIVERSITY COLLEGES

ORIENTAL COLLEGE, LAHORE. Principal—A. C. Woolner, M.A. Vice-Principal—Md. Shafi, M.A.

LAW COLLEGE, LAHORE Principal—C L. Anand, M A , LL B. Lond , Barr -at-Law. Lectrs —Rahim Bux, M A , LL.B , C. L. Mathew, M A , LL.B. 7 Part-time Lectrs

THE HAILEY COLLEGE OF COMMERCE. Principal—J. W Thomas, B.Sc , B Com. Lond.

## GENERAL INFORMATION

Established in 1882, the University confined its activities, until recently, mainly to examinations, the control of affiliated institutions, and the provision of instruction in its Oriental and Law Colleges. It has since 1919 undertaken the maintenance of Professors and Readers and co-ordination of higher teaching in other subjects. Honours Schools in Arabic, Sanskrit, Persian, Botany, Zoology, Maths , Chemistry, and Technical Chemistry, a Combined Honours School in English, History, Economics, and Philosophy, and post-graduation teaching in Economics have been instituted in Lahore ; and senior teachers in the local colleges, partially relieved of routine work, have supplemented the teaching of Univ. Profs and Readers.

Three Papers (Honours) have been substituted in English, Mathematics, History, Economics, Philosophy, Sanskrit, Arabic, Persian, Physics, and Geology in place of Honours Schools in Arabic, Sanskrit, Persian, Mathematics, and the Combined Honours School

LIBRARY, 62,710 vols. (arranged on Dewey Decimal system). Chemical LABORATORY. Astronomical OBSERVATORY.

FACULTIES. Oriental, Arts, Law, Medicine, Science, Agriculture, Commerce.

DEGREES. B.A., M.A., D.Lit.; B.Sc., M.Sc , D Sc , B Sc. (Agr ), M.Sc. (Agr ); LL B , LL D , Hons in Law , M.B , B S , M S , M.D , B T ; (in Oriental Learning) B O L , M O L , D O L ; (in Commerce) B Com.

In the Faculty of Oriental Learning a 2 yrs ' course from Matricn. leads to an Interm. examn, and further courses of 2 yrs., 1 yr , and 2 yrs. to the B O L., M O L., and D O L. successively. Examns. are also held for Proficiency, High Proficiency, and Honours in Arabic, Sanskrit, and Persian. Honours admit to the Oriental titles: Maulvi Fazil (Arabic), Shastri (Sanskrit), and Munshi Fazil (Persian), and High Proficiency to Maulvi Alim, Visharada, and Munshi Alim. Similar examns. are held in Urdu, Hindi, Panjabi, and Pashto

The B.T. is open to any one who after graduating in any faculty other than

the Oriental has undergone a 1 yr course at an Affiliated Training Coll., or any trained S.A.V. graduate teacher not less than eighteen months after his passing the S.A.V. examn.

The B.Com. is open to anyone who has passed the Intermediate Examination of the Panjab University and has taken a 3 yrs' course, passing the First Examination in Commerce at the end of the first year.

**RECOGNITION OF OTHER INSTITUTIONS.** An equivalent examn of any recognized Univ. may be accepted in lieu of Intern. Arts or Science, B.A. or B.Sc., for the purposes of admission to a higher examn.

**SCHOLARSHIPS FOR GRADUATES** Several of from Rs. 20 to Rs. 25 p.m. for 2 yrs. in Oriental Studies, Arts, and Science. Research studentships tenable for from 2 to 4 yrs. in Oriental Hist., Sanskrit, Pali or Prakrit, Arabic, Panjabi, Science, and Mathematics

**RESIDENCE.** Undergraduates in Lahore Arts Colleges are ordinarily required to reside in College Hostels or in hostels recognized by the Univ.

**PUBLICATION.** *Calendar* (Sept.), Rs. 5/8/0.

## AFFILIATED COLLEGES RECOGNIZED IN DEGREE OR DIPLOMA COURSES

[B.A., M.A., etc.—A, B, C, E, Ec, G, H, M, Ph, Ps, S, Z, P, Psych = Affiliated up to B.A., M.A., etc. in Arabic, Botany, Chemistry, English, Economics, Geology, History, Maths, Philos, Physics, Sanskrit, Zoology, Persian, Psychology]

### Medical

**LAHORE, Medical College** (Govt) M.D., M.S., M.Sc.—Physiol. Class accommodation for 450 Degree students. Principal, and Prof. of *Surgery*—Lt.-Col. H. H. Broome, M.B., F.R.C.S. Eng., I.M.S. Other Profs. *Anat.*—Major P. B. Bharucha, D.S.O., O.B.E., L.M. & S. Bom, F.R.C.S., I.M.S., *Forensic Med.*—Civ. Surgeon, Lahore, *Hygiene*—The Asst. Dir. of Public Health; *Med.*—Lt. Col. J. J. Haiper Nelson, O.B.E., M.D., F.R.C.S. Edm., I.M.S., *Mental Dis.*—Major C. J. Lodge Patch, L.R.C.P., L.R.C.S. Edm., I.M.S.; *Midwifery*—Capt. S. N. Hayes, F.R.C.S. Eng., L.R.C.P. Lond., I.M.S.; *Path.*—Col. H. M. Mackenzie, M.B. Edm., D.P.H. Camb, I.M.S.; *Chn. Med.*—Major T. A. Hughes, M.A., M.D. Dubln, M.R.C.P., I.M.S., *Physiology*—Major V. R. Mirajkar, F.R.C.S., I.M.S., *Operative Surgery*—Lt.-Col. R. H. Bott, C.I.E., M.B., B.S. Lond., F.R.C.S., I.M.S., *Dis. Eye, Ear, and Throat*—Major A. M. Dick, O.B.E., M.B., Ch.B. Edm., M.R.C.S., L.R.C.P. Lond., F.R.C.S. Eng., I.M.S., *Pharmacology*—Lt.-Col. D. H. Rai, M.D. Edm., I.M.S.

**DELHI, Lady Hardinge Medical College for Women** M.B., B.S. Principal—Miss G. J. Campbell, M.D., Ch.B. Glas., W.M.S.

### Teaching

**LAHORE, Central Training College** (Govt). B.T. Principal—J. E. Parkinson, M.A. Vice-Principal—R. H. Whitehouse, D.Sc.

### Agriculture

**LYALLPUR, Agricultural College** (Govt.) B.Sc. Agr., M.Sc. Agr. Research Depts. in Agr., Bot., Chem. Principal, and Prof. of *Agr. Engineering and Land Surveying*—T. A. Miller Brownlie, C.E., M.I.M. & C.E. Prof. of Agr.—H. R.

Stewart, D I.C Lond , N D.A. Prof of *Chem.* and Chem. Adviser to Govt.—  
P. E Lander, M A. Camb., D.Sc., A I.C

### Arts and Science

AMRITSAR, *Khalsa College* M A —Ec , Maths., E. Large Collegiate School attached Principal—Naram Singh, M A , LL B 17 other Profs and 6 Lecturers

BAHAWALPUR, *Sadia-Egerton College* B A —E , S , A , P , M , Ph , H , Ec. Principal—M A Zahidie, B A

JAMMU, *Prince of Wales College.* M A —Ec , M Sc —G Principal, and Prof of *Economics and English*—Fram M Dadina, M A Camb , Barr.-at-Law. Geol —B. K. Bose, M Sc

LAHORE, *Dayanand Anglo-Vedic College* M A —Ec , S. 574 resident and 508 other students. Principal, and Prof of *Chem* —Lala Sain Das, M.A. Calc , B A Camb

LAHORE, *Dyal Singh College* M A —M., Ph , P. Principal, and Prof. of *Maths* —Hem Raj, M.A.

LAHORE, *Forman Christian College.* M A —E, Ec., H., M , Psych. : M.Sc. —M , C Supported and controlled through Board of Trustees by Panjab Mission of American Presb Church Has a Dept of Indust. Chem Principal, and Prof of *Econ.*—E D Lucas, M A , D D , Ph D. Columbia.

LAHORE, *Government College* M A —A , C , E , Ec , H , M , Ph , Ps , S , Psych , M Sc —B , C , M , Ps , Z Principal, and Prof of *History*—Lt -Col H. L O Garrett, M A , I E S Profs of *Arabic*—M Sadr-ud-din, D Litt , Bot —Shiv Ram Kashyap, B A Camb , M Sc , Rai Sahib , *Econ*—G D Sondhi, B A. Camb , M A , *English*—J R Pirth, M A , *Maths*—Gopal Singh Chawla, M A Panj and Calc , B A Camb , R B , *Zool*—G Matthai, M A Camb , M Sc , *Chem*—H B Dunnichiff, M A , Sc D , F I C , *Philos*—G C Chatterji, M A , *Sansk*—Gulbahar Singh, M A , LL B , *Physics*—J B Seth, M A , B Sc

LAHORE, *Islamia College* M A —A , Ph , Ec , H , M , and P For Muhammadans Principal, and Prof of *Eng*—Major Sir Alexander Wilson, Bart., B A (Oxon), D S O , M C , Legion of Honour Profs of *Arabic*—M Asghar Ali, M O L , *Philos*—Abdul Hamid, M A

LAHORE, *Sanatana Dharma College* M A —Sanskrit and Economics Principal, and Prof of *Sansk*—Raghubar Dayal Shastri, M A , M O L. Prof. of Economics—Brij Naram, M A

LAHORE, *Kinnaird College for Women* B A —E , H , Ph , M , Ec , S., P. Principal—Miss Anderson Scott, M A

LAHORE, *College for Women* B A —E , M , H , Ph , C. , B.Sc.—E., C , B. Principal—Miss G Harrison, B A

PATIALA, *Mohindra College* (State). No fees. M A —M., Ph. Principal—B. N. Khosla, M A. Prof. of *Maths*—Bhagat Ram, M.A., LL.B.

PESHAWAR, *Edwardes College.* B A —A., E , Ec , H., M., S., P. Principal, and Prof. of *English*—Rev. R. H. Noble, M.A.

PESHAWAR, *Islamia College.* For Muhammadans. 4 miles from Peshawar. Residential. Large Collegiate School attached. B.A.—A., E , Ec., H.,

M., Persian, Ph. ; B.Sc.—E., B., C., Ps. Principal, and Prof. of *English and Economics*—H Martin, O.B.E., M.A. Ox.

RAWALPINDI, *Gordon Mission College*. B A —E., S., P, Ph, H., M., A., Ec.; B.Sc —E., Astr. Principal, and Prof. of *English*—E. L. Porter, M.A., D D

SIALKOT, *Murray College*. Maintained by Panjab Mission of Church of Scotland. B.A.—A., E., Ec., H., M., Persian, Ph, S. Principal, and Prof. of *Engl.*—Rev. J. Garrett, M A. 10 other Profs.

SRINAGAR, *Sri Pratap College* (State). M A.—M., Ph., S. Principal, and Prof. of *Engl.*—L MacDermott, B A.

### THE YEAR 1927–28

STUDENTS Full-time Undergrad, 9514 ; Medicine, undergrad. 432 ; Law, graduates, 656 , Agric , undergrad. 239. Resident in colleges or hostels, 5682

DEGRFES : B A , 827 , B Sc., 97 ; M A , 72 ; B T., 85 ; M.Sc , 27 , LL.B., 201 ; B.Sc (Ag ), 16 , M B , B S , 48.

# PATNA UNIVERSITY

CHANCELLOR—THE GOVERNOR OF BIHAR AND ORISSA

VICE-CHANCELLOR—SIR S SULTAN AHMED, Kt., Barr -at-Law.

REGISTRAR—MAHESHWAR PRASAD, B.A. All.

*University Reader*, 1928-29

M. P. West, M A , D Ph Ox  
Lang and Educ.

*Sukh Raj Ray Reader*

W W T Moore, M A Dub  
Geometry

*Banarhi Reader*

K T. Shah, B A Bom , B Sc  
Econ Lond , Barr -at-Law  
Federal Finance

*Ramdin Reader*

Mahamahopadhyaya G N Jhei,  
M A , D Litt  
Hindu Law in its Sources

## GENERAL INFORMATION

Founded Oct. 1, 1917. Most of the teaching is conducted in the "admitted" Colleges, v. *infra*.

LIBRARY, 7674 vols.

FACULTIES. Arts, Science, Educn , Law, Engineering, Medicine.

DEGREES. B.A., M.A., Ph.D , B Sc., M.Sc., D.Sc., B.Ed., B.L., M.L., D.L., B E., M.B.B.S.

RECOGNITION of examns is accorded by Ox., Camb., Dub., Edin., and the General Med. Council

PUBLICATIONS. *Calendar*, Rs 4; *Courses of Studies for each Examination*, as. 6, *Question Pamphlets B A. and B Sc Examns*, Re. 1/4, *All other Examns*, as. 12, *Regns*, Re 1, *Minutes*, Rs. 2, *Matriculation Selections* (Sansk., Pers., Engl.), Re. 1/8/0 each.

## ADMITTED COLLEGES

PATNA COLLEGE, *Bankipur* M.A. Principal, E. A Horne, M A St. And Professors *Persian*—Azimuddin Ahmad, Ph.D Leip , A N M Ali Hasan, M A. Cal *Econ and Pol Philos*—H. R. Batheja, M A Ox , Gyan Chand, M A Punjab, Saroj Ranjan Basu, M A Cal. *Engl*—J S. Armour, M A. Glas , D Auchterlome, M A Aberd., J L. Hill, M A Ox , Niranan Neogi, M A Calc *History*—W. Owston Smith, M A. Camb . S C. Sarkar, M A. Cal, Ph D Ox , J N. Samaddar, B A *Philos*—C C Sinha, M A. ; Jamuna Prasad, B A Camb. *Sanskrit*—R. Sarma, M A ; A P Banerji Shastri, Ph.D Ox. 22 other Profs. and Lectrs.

SCIENCE COLLEGE, *Patna* M Sc Principal, K S Caldwell, B Sc Wales, Ph D. Leip , F.I.C. Professors *Maths*.—W W. T Moore, M A. Dub. ; Rai Sahib A T Chatterji, M A. ; D N Sen, M.Sc Cal , B.A Camb , P. N. Das Gupta, M Sc *Chem*.—A S. Khan, M.Sc Manc , R C. Roy, D.Sc. Lond. ; C B Roy, M A Cal , P. B. Ganguli, D Sc Lond. *Physics*—A. T. Mukerji, M A , K. Prasad. B.A Camb. ; K Dayal, M.Sc Cal , K. N. Banerji, M.Sc. Cal. 31 other Profs., Lectrs, and Demrs.

CUTTACK, *Ravenshaw College*. M.A., B.Sc., B.L. Principal, and Prof. of *Engl.*—H. Lambert, M.A. Camb. Other Profs. : *Botany*—P. K. Parija, B.A. Camb. *Chem.*—B. K. Singh, M.A. Camb., D.Sc. (Dub.); A. C. Ganguli, R.A. Calc. *Econs.*—S. C. Bardhan, M A. *Hist*—N. K. Sanyal, M.A. Cal. *Law*—S. C. Chakravarti, B L Cal. *Maths*—S. K. Ganguli, M.A. *Persian and Urdu*—A. M. M. Latif. *Philos.*—M. M Senapati, M.A. *Physics*—N. Misra. *Sanskrit and Oriya*—K. N. Das, M.A. 24 other Profs., Lectrs., and Demrs.

CUTTACK, *Training College*. Diploma in Education.

BANKIPUR, *Bihar National College* B.A., B.Sc. Principal, and Prof. of *Philos.*—D. N. Sen, M.A. Other Profs.: *Chem.*—B. K. Chowdhry, M.Sc. *Engl.*—S. M. Huq, M.A. *History*—H. C. Rai Chaudhary, M.A. *Maths.*—L. K. Ghosh, M.A. *Persian*—A. Sayid, M.A. *Philos.*—G. P. Hazari, M.A. *Physics*—S. N. Roy, M.Sc. *Cal Sanskrit*—S. N. Bhattacharayya, M.A. 23 other Profs., Lectrs., and Demrs

MUZAFFARPUR, *Greer Bhumihar Brahman College* B.A., B.Sc. Principal—W. V. Duke, M.A. (T.C.D.) Profs. *History*—R. P. Khosla, M.A., B.A. Ox. *Arabic and Pers.*—A. B. P. Sinha. *Chem.*—R. K. Basu, M.Sc. *Econ.*—B. B. Mukherjee, M.A., B.L. *Engl.*—B. Chatterji, M.A. *Maths.*—K. P. Das, M.Sc. *Philos.*—J. K. Sarkar, M.A. *Physics*—R. C. Sen, M.A. *Sansk.*—..... 14 other Profs., Lectrs., and Demrs

BHAGALPUR, *Tej Narain Jubilee College*. B.A., B.Sc. Principal, and Prof. of *English*—S. Sen, M.A. Profs. *Chem.*—H. L. Das Gupta, M.A. *History*—N. M. Acharya, M.A. *Persian*—A. Majid. *Philos.*—B. C. Sinha, M.A. *Physics*—S. N. Banerjee, M.Sc. *Pol Econ.*—T. N. Basu, M.A. *Sansk.*—K. C. Chakravarti, M.A. 24 other Profs., Lectrs., and Demrs

HAZARIBAGH, *St Columba's College* B.A. Principal, and Prof. of *Eng.*—G. C. P. Stevenson, Sen. Mod., B.D. (I.C.D.) Prof. of *Philos.*—A. F. Maikham, M.A. Ox. Other Profs. *Chem.*—H. C. Mukharji, M.A. *Icons.*—S. K. Bose, M.A. *History*—J. N. Maitra, M.A. *Maths.*—R. Mukherji, M.Sc. *Pers.*—Md. Muslim, M.A., M.O.L. *Physics*—S. C. Bhattacharya, M.A. *Calc.* 7 other Profs.

PATNA *Training College* B.Ed. Principal—J. H. Thickett, M.A. Camb. Profs. W. W. Henderson, M.A., Dip. Ed. Glas., Sayid Tahauddin Ahmad, B.A., L.T.; J. N. Ghosh, M.Sc., B.L., N. C. Chatterji, M.A. *Cal.*, Dip. Ed.

PATNA *Law College* B.L. Principal—S. S. Alam, M.A., LL.B. Camb., Barr.-at-Law. Vice-Principal—S. M. Shareef, M.A. Camb., Barr.-at-Law. Profs. S. N. Dutta, Barr.-at-Law., Shiveshwar Dayal, M.A., B.L., Nawal Kishore Prasad, B.A., B.L.; S. A. Manzar, B.A. Ox., Barr.-at-Law., B. K. Sinha, B.A., B.L. *Calc.*, B. P. Jannar, M.A. Camb., Barr.-at-Law., Syed Hasan, B.A., B.L., Bhubneshwar Prasad Singh, B.A., B.L., Anand Prasad, B.A., B.L.; S. Yusuf Husain, B.A. Alig., Barr.-at-Law.

PATNA, *Bihar College of Engineering* B.E. Principal—L. D. Coueslant, B.Sc. Lond., M.I. Mech. E., Wh. Ex., M.I.E. India. Senior Professor—J. Tullis, B.Sc. Glas. 14 other Profs. and Lectrs.

PATNA, *Prince of Wales' Medical College*. M.B., B.S. Principal—Lt.-Col. H. R. Dutton, M.R.C.P. Lond., M.R.C.S. (Eng.), D.T.M. and H. Camb. Profs. *Surgery*—Major R. R. M. Porter, M.C., M.A., M.B., Ch.B., F.R.C.S. Edin., I.M.S. *Obstetric Medicine*—Lt.-Col. D. Coutts, M.B., I.M.S. *Pathology*—Major A. N. Bose, M.B.E., M.B. *Calc.*, M.R.C.P. Lond. and Edin., D.T.M. & H. Camb., I.M.S. *Physiology*—E. W. H. Cruickshank, D.Sc. Lond., M.D. Aberd., Ph.D. Camb., M.R.C.P. Lond. *Pharmacology*—T. N. Banerji, M.B. *Calc.*, M.R.C.P. Lond. and Edin., D.T.M. & H. Lond. *Anatomy*—H. Hyder Ali Khan, F.R.C.S. Edin. *Biology*—S. S. Chaudhury, M.A. All., M.Sc. Luck. 21 other Profs., Lectrs., and Demrs.

## THE YEAR 1927-28

STUDENTS Full-time total, 4817, including 878 graduates.

DEGREES. B.A., 331, M.A., 37; B.Sc., 31; M.Sc., 4; B.L., 192; B.Ed., 6; Final M.B., B.S., 12.

# UNIVERSITY OF RANGOON

VISITOR—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF BURMA.

PRO-CHANCELLOR—Hon. BA YIN, M B, Ch B. Edin

VICE-CHANCELLOR—Hon SIR BENJAMIN H. HEALD, V D, M A., I C S.  
(on leave)

PRO-VICE-CHANCELLOR—Hon Mr Justice MAUNG BA, B A, K S M.

REGISTRAR—A. CAMPBELL, M C., M A Edin, I E S

## CONSTITUENT COLLEGES AND THEIR STAFFS

UNIVERSITY COLLEGE: Principal—D. J. Sloss, C B E., M A. Liv, I E.S.

### *Anatomy*

Lack, Major L. A. H, M.B, Ch B  
Edin, I M S

Prof (on leave)

Ahmed, N, F R F P & S, L M,  
M B and B S (Offg)

Guha, S C, M B Calc  
Asst Lectr

1 Demr

### *Biology*

Meggitt, F J, M Sc, Ph.D Birm,  
F Z S, I E S Prof

3 Asst Demrs

### *Chemistry*

Peacock, D. H, M A Camb, M Sc.  
Lond, F I C, F C S, I E S

Prof

Goldsworthy, L J, M A Ox,  
I E S. Lectr.

Venkateswaran, R, M A Mad,  
Ph D Lond Asst. Lectr

Ba, U, B A Calc, A T M, F C S  
Asst Lectr.

Tha, U. Po, M.Sc Asst Lectr

9 Demrs and Asst. Demrs

### *Economics*

Jevons, H Stanley, M.A Camb,  
B.Sc. Lond., F S S, I E S

Prof.

Solomon, E. H, B.A. Camb.,  
F.R.E.S. Asst. Lectr.

Khanna, B M, LL B All

Asst Lectr

Dube, R C, M A All Asst Lectr

### *Education*

Clark, G F, M A Glas, Ph D.  
Jena, I E S Prof (on leave).

Scott, Miss M. E, M A. Edin,  
B Ed Edin., M.B E., I.E.S.

Lectr (Offg)

Hla, U Tha, B A Calc Lectr

### *Engineering, Civil*

Elgood, W N, B Sc St And.,  
I E S Prof (on leave).

Gould, A J, B Sc, I E S (Offg)

Set, B, B E. Calc. Asst Lectr

Narayanan, M S, B E Asst Lectr

### *English*

Fraser, W. G, M A Aberd, I E.S.  
Prof (on leave).

Luce, G H, B A Camb, I E S  
Prof (Offg)

Pearn, B R, M A. Lond. Lectr.

Kingsley, Miss M., M.A. Calc.,  
B.T. Calc, B A Lond. Lectr.

Mackenzie, A. C, M A.

Htin-si, L, M A. Calc. Asst. Lectr.

Jembunathan, S, M A

Asst. Lectr.

Gopalakrishna Aiyar, P. G, M A.  
Mad. Asst Lectr.

9 Tutors.

*Forestry*

Unwin, R., B.Sc. Lond, I F S [Prof  
 Simmons, E. C., I F S Lectr

*Geology and Geography*

..... Prof  
 Chatterjee, S P, M Sc Lectr  
 French, F. G Spl Lectr  
 1 Asst. Demr.

*History*

Hall, D. G E, M A. Lond, F R H S, I E S. Prof.  
 Luce, G H., M A Camb, I E S Univ Reader in Far Eastern Hist  
 Brookes, A., M.A. Camb, I E S. Lectr.  
 Desai, W. S., M.A. Bom, B A. Camb. Asst Lectr.  
 4 Tutors.

*Law*

Eggar, A, M A. Camb, Barr-at-Law Prof.  
 Bilimoria, J C, B A. Bom, Barr-at-Law Lectr.  
 E-Maung, U, M A, LL B Camb, Barr-at-Law Asst Lectr

*Mathematics*

..... [Prof  
 Owen, L. G, M A. Ox, I E S.  
 Lewis, E G, B Sc Lectr  
 Pillai, P K Lectr  
 Haldar, K P, M.A., M Sc Calc Asst Lectr.  
 Ka, U, M A. Asst Lectr  
 Thon, U Po, M Sc Asst. Lectr  
 6 Tutors.

*Oriental Studies*

Tin, U Pe Maung, M A. Calc., B.Litt Ox, I E S. Prof  
 Cassim, A, B A. Calc. Asst Lectr in Pali.  
 Win, U Lu Pe, B A. Asst Lectr in Burmese  
 Akbar, Md. Gulam, M A. Calc. Asst. Lectr. in Persian.  
 6 Tutors

*Philosophy*

Ross, G. R. T., M.A. Edin., D Phil. Edin, I E S Prof (on leave)

St John, W., B D, Ph.D.

Prof (Offg)

Banerjee, D, M A Lectr

*Linguistic Survey*

Taylor, L F, B A Camb, I E S Research Lectr.

*Physics*

Aiyar, N C. Krishna, M A. Mad., I E S. Prof.  
 Teegan, J A C, M Sc Lectr  
 Basu, R M, B Sc Lond Asst. Lectr  
 Iyer, K. R. R, M A. Asst. Lectr.  
 Srinivasan, N G, B Sc Calc Offg Asst Lectr  
 6 Demrs. and Asst Demrs

*Physiology*

McRobert, Capt G. R, M D, M R C P, D T M & H, I M S. Prof.

Chowdhury, H, M Sc, M B Asst to Prof

1 Demr

**Medicine** (for subjects of first 2 yrs —Anat., etc., v *supra*)

*Anæsthetics*

Singh, Randhir, M B E Lectr

*Dentistry*

Drinkall, L D S Lectr

*Forensic Medicine*

Owens, Lt-Col T F, I M S Prof and Dean of Medical Studies

Passanha, Major W H, I M D

Asst

U, Tin Asst to Prof

*Hygiene and Public Health*

Bilderbeck, Major A. C L O'S, M A Camb, M B, B S Lond, M R C S Eng, L R C P. Lond, D P.H Camb, D.T.M. & H Lond, I M S Lectr.

*Medicine*

Kelsall, Lt.-Col. R., D.S.O., M.D. Lond., I.M.S. Prof.

Chowdhury, G L., M B Calc.

Asst.



*Mental Diseases*

Robson, Major H A H, L R C.P.  
Lond, M R.C.S Eng, M B.,  
B.S Lond, I M S Lectr.

*Midwifery and Gynaecology*

Crump, Lt -Col. S T, I M S  
Prof. (on leave).  
Treston, Major M L, I M.S.  
Offg Prof  
Ferguson, Mrs K. W., F.R.C.S.I.,  
L M. Asst

*Ophthalmology*

Saigol, Lt -Col R D, I M S  
Lectr  
Menon, E K, L M and S Asst

*Materia Medica and Pharmacology*

Jones, Major J W, I M S Lectr

Basu, N. K., M B. Calc. Asst

*Pathology and Bacteriology*

Morrison, Major R V, M D.,  
M R C P. Edin, I M S  
Prof (on leave)  
Taylor, Lt -Col. J, D S O, M D,  
I M S Offg Prof  
Raja, R N, L R C.P. & S Asst  
2 Demrs.

*Radiology*

James, E R, I M D Lectr

*Surgery*

Scott, Lt Col H B, O B E.,  
F R C S E, I M.S. Prof  
David, M D, M B Ch B. Mad.,  
F R C S E. Asst

JUDSON COLLEGE : Principal—W. St. John, B D, Ph D Chicago

*Biology*

Gates, G. E, M.A. Harv Lectr  
Northup, Flora E, B A Mt  
Holyoke, M Sc Wash  
Keyser, W B, B A Bucknell  
Lectr

*Burmese and Pali Literature*

Pe, U Tun, M A Calc, B L Lectr  
Chaudhury, R, M.A Calc (Pali)  
Lectr

2 Tutors

*Chemistry and Physics*

Shivers, Marion E., M A. Columbia.  
Lectr.  
Scherling, C, M.A. Camb. Lectr  
Smith, D O, B A Redl, B Sc  
Calif Tech Lectr  
Basak, B K., M.Sc. Calc. Lectr  
Guha, S C, M A. Calc Lectr  
Majumdar, N. C., M Sc Calc.  
Asst Lectr

1 Tutor.

*Economics*

Andrus, J R., M A Calif. Lectr.

*English Literature*

Crawford, R. N., M A. Chic., B.D.  
Rochester Lectr.

Rickard, S H, B A Bucknell  
Hunt, Miss H K, Ph D. Denni-  
son, B Sc Simmons, *Dean of*  
*Women* Lectr  
Riggs, Miss G, Ph B Lectr.  
Wiatt, L, B A Denison Lectr  
Kangyi, J, M A Chic Lectr  
2 Instrs

*History*

Aspinall, A, M A, Ph D Manc  
Thomas, E, B A. Asst. Lectr.

*Mathematics*

Campbell, W B, M A Lectr  
Smith, D. O, B A Redland, B Sc  
Calc Tech Lectr.  
Ghatak, M, M A Calc  
1 Tutor.

*Mental and Moral Science and Logic*

St. John, W, B.D., Ph.D Chic  
Lectr.  
Jury, G. S., M.A. Yale Lectr.  
San Ba, T., B.A. Calc., B D.  
Newton Centre Asst. Lectr.  
Hla Bu, U, M.A. Calc.

## GENERAL INFORMATION

This Univ., founded in Dec 1920, is governed by a widely representative Council consisting of not more than 70 members, which exercises its functions by means of an Executive Committee of 10 members. The Council has the power to reject any Act or resolution of the Senate (the academic body of the Univ.) in excess of its powers under the Univ. of Rangoon Act 1920, and to confirm or reject any resolution presented by it affecting the income or expenditure of the Univ. or of a Constituent College. The Senate consists of the Vice-Chancellor, the Director of Public Instruction, Burma, the Principals of Constituent Colleges, the Professors, 3 members of the Council, and not less than 10 lecturers in constituent colleges. Its executive duties are discharged by a Standing Committee. The Act of 1920 was amended in 1924.

An estate of about 450 acres of high and healthy ground, adjoining the Victoria Lakes on the outskirts of Rangoon, has been acquired for the Univ buildings.

**SPECIAL FEATURES.** The B Sc Courses in Forestry are the only courses of the kind in Asia. The courses in Burmese leading to the M A Honours Examination are unique. The MSS of Pali Pitakas with commentaries, and the Talang MSS in the Bernard Free Library, constitute probably the most comprehensive collection of these materials. The courses in old Mon (Talang) and Pyu in the M A Honours Burmese courses are unique, as also are various courses in Burmese Epigraphy. The course in Far Eastern History probably includes more of Chinese and further Indian studies than is provided by other Indian Universities. Special courses in Burmese History are offered.

**LIBRARIES**—University, in process of formation, University College, 22,385 vols.; Judson College, 11,000 vols.

**DEGREES**—B A and M A, B Sc and M Sc; B Sc Civ Engin, B Sc Forestry, B L, M B and B S (6 yrs' course from Intermediate examn.); D Litt., D Sc, LL D. LICENCE in Med and Surg (6 yrs' course after matriculation).

**DIPLOMAS**, in Teaching and in Forestry.

**ADMISSION** Ordinarily by Matriculation or a pass in the Anglo-Vernacular High School examn. or the European High School examn. held by Educational Dept. in English, Burmese, Maths., and two optional subjects. Proficiency in English must be shown.

**FEES for Examinations** B A, B Sc, Rs 30; B A. (Hons.), B Sc (Hons.), Rs 40; M A, M Sc, Rs 40, B L, Rs 40; M B and B S, Rs 50. Diploma or Licence, Rs 40, B Sc Forestry, Rs 40, B Sc Engineering, Rs 50.

**SCHOLARSHIPS** for advanced study in the United Kingdom, 5 in Education; 1 each in Mech. Eng., Sanit. Eng., and Hist.

**PUBLICATIONS.** *Calendar, Annual Reports, Convocation Addresses*

## THE YEAR 1927-28

**NEW POST** A Readership in Far Eastern History.

**LEGISLATION** The Honours Courses for the degree of B A and B Sc were extended from two years to three.

**BENEFACTIONS** An "appeal" for the endowment of the University was launched by His Excellency Sir Harcourt Butler. The amount received by March 31, 1928, was about 48 lakhs. The Burmah Oil Co. gave Rs. 1 lakh for

the endowment of a Burmah Oil Company College of Mining and Engineering. Raja Dr S. Ramanatha Reddiar, Rs. 2 lakhs for a Univ. Library. Dr. U Nyo, Rs 1,70,000 for a Students' Union and Rs 30,000 for a Univ. Boat Club. Mr. Chan Chor Khine, Rs 1 lakh for a Gymnasium. The Nattukotai Chettyars' Association, Rs. 1 lakh for the endowment of a Chair in Economics.

**NEW BUILDINGS.** The following new buildings were completed during the year for University College 17 houses, 5 men's hostels, with accommodation for Assistant Wardens; men's common dining-hall; sanatorium and a servants' village; and for Judson College. 2 houses, 2 men's hostels; a common dining-hall.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES** Prof. C. K. Webster, Univ. of Wales, four lectures on recent international developments, with particular attention to the work of the League of Nations. Prof E. P. Horowitz, Hunter College, New York, twelve lectures on Indo-European Philology and Semantics.

**HONORARY DEGREES.** LL D —Sir John Cargill, Bart, Director, Burmah Oil Company; U Nyo; Raja S R Reddiar; Sir Spencer Harcourt Butler, G C S.I, G.C I E, I C S

**STUDENTS** Full-time total, 1214; graduates, 187 Part-time 46. Vacation course for teachers, nil

**DEGREES** M A, 1; M Sc, 2; B A (Hons), 16; B A (Pass), 67, B Sc. (Hons), 19, B Sc (Pass), 19, B L, 34, B Sc in For, 5, B Sc (Engineering), 21. Diploma in Teaching, 3

# THE INDIAN INSTITUTE OF SCIENCE, BANGALORE

VISITOR—H.E. THE VICEROY OF INDIA.

DIRECTOR—M. O FORSTER, D Sc., Ph.D., F.I.C., F.R.S.

## TEACHING STAFF

<i>General Chemistry</i>	[Prof	Ramaswami Ayyar, C. V , L Ag.	
Watson, H E., D.Sc. Lond , A I C.			Asst.
Kulkarni-Jatkar, S K , M Sc		Banerjee, B., M Sc Calc.	Asst.
Bom.	Lectr	Patwardhan, V N , M Sc Bom	
Krishnaswami, K R , B A. Mad			Asst
	Asst	Sastri, B N , B Sc Mysore	Asst
Tumminkatti, M C , Ph D Ill „		<i>Electrical Technology</i>	
Govinda Rau, M A , Ph D Lond		Catterson-Smith, J. K , M Eng	
	Asst	Liv , M I E E	Prof
<i>Organic Chemistry</i>	[Asst Prof	Mirchandani, T J , M Sc Lond	
Guha, P C , D Sc Calc			Asst. Prof.
Chakravarti, G C , M Sc Calc		Yoganandan, G.	Asst
	Lectr	<i>Mechanical Engineering</i>	
Ramaswami Ayyar, P , M A Mad		Kann, J. H C , B Sc. Lond.	
	Asst		Asst Prof
Sanjiva Rao, B , B A Mad	Asst	<i>Electrical Communication Engin-</i>	
<i>Bio-Chemistry</i>		<i>eering</i>	[Asst Prof
Norris, R V , D Sc Lond , M Sc		Kantebet, S. R , B A Bom	
Manc , F I C	Prof	<i>French and German</i>	
Subrahmanyam, V , B A Mad		Amrita Row, K , M A Mad , L T.	
	Lectr.		Lectr

## GENERAL INFORMATION

The object of the Institute, opened July 24, 1911, is to establish Chairs and Lectureships in Science and Arts, especially with a view to the promotion of original investigations and their utilization for the benefit of India, and to provide and to assist in the provision of suitable libraries, laboratories, and all other necessary appliances.

*Associateships* are awarded on the recommendation of the Senate for 5 terms (of which there are 3 in a yr—July–Sept , Nov.–Dec., Jan.–March) devoted entirely to research work , also for 3 terms *plus* a period of research elsewhere before or after the period spent at the Institute. *Fellowships* may be awarded to Associates who, having spent 5 yrs. in actual practice, produce satisfactory evidence of original and valuable research work, or other contribution to the advancement of scientific or industrial knowledge. *Certificates* are granted to students who satisfactorily complete approved courses of study 77 Associateships and 1 Fellowship have been granted.

Students reside in a *Hostel*. Messing charges are from Rs 28 to Rs 35 p m., rent, lighting, and service, Rs. 10 p m

PUBLICATIONS. *Calendar* (annual) ; Pamphlet describing history, 1911–23 ; *Journal of the Institute*, about 12 parts annually ; *Electrotechnics*, pubd. by the Elec Engin Soc The Library contains 14,000 vols

POSTAL ADDRESS : Indian Institute of Science, Hebbal, Bangalore District. TELEGRAMS—Science, Bangalore

THE YEAR 1927–28 *Number of Students* . Genl. and Org Chem , 37 ; Bio-Chem., 24 ; Elec Tech , 39.

# CEYLON UNIVERSITY COLLEGE, COLOMBO

PRESIDENT—THE GOVERNOR OF CEYLON

PRINCIPAL—R. MARRS, M.A. Ox., C.I.E

REGISTRAR—F. H. V. GULASEKHARAM, M.A. Madras

## PROFESSORS AND LECTURERS

<i>Botany</i>		De, J C, M A Calc, M.A Lond
Ball, N G, M A Dub	Prof.	Lectr
Sarbadhikari, P C, M A Calc,		<i>Mathematics</i>
D I C., Ph D and D Sc Lond.	Lectr.	Suntharalingam, C., B A Ox,
		B Sc. Lond. Prof.
<i>Chemistry</i>		Caspersz, U. D R, B Sc Lond.
Rae, W N, M A Camb, F I C.	Prof	Lectr.
Chandrasena, J P C, B Sc,		Gulasekharam, F. H V., M.A.
Ph D Lond, D I C, A I C	Lectr	Madras Lectr.
		Nadaraser, S, B A Camb, B Sc
		Lond Asst Lectr
<i>Classics</i>		<i>Philosophy</i>
.....	Prof	The Principal
Stone, W A, M A Camb	Lectr	<i>Physics</i>
Rodrigo, J L C, M A Ox	Asst Lectr	Hinton, J W, M Sc New Zealand
		Prof.
<i>Economics</i>		Lectr
Das Gupta, B B, M A, Ph D		<i>Sinhalese, Sanskrit, and Pali</i>
Calc, B Sc Lond	Lectr	Malalasekera, G P., M.A. Lond,
		Ph D Lond Lectr.
<i>English</i>		Siddhartha, Thero R, M A Calc
Smith, Leigh, M A Durh	Prof	Lectr.
Hussey, D M, B A. Camb	Lectr.	
<i>French and German</i>		<i>Tamil</i>
Jansz, P L, M A Camb	Lectr	Kingsbury, F, B A Mad Lectr.
<i>Geography</i>		<i>Zoology</i>
Robison, L. McD, B A Manc	[Lectr	Burt, D R R, B Sc St Andrews,
		F L S Lond. Lectr.
<i>Modern History</i>		..... Addl. Lectr.
Pakeman, S. A, M.A. Camb	[Prof.	

## GENERAL INFORMATION

As a preliminary step to the formation of a University for Ceylon, the College was established in 1921 by the Ceylon Government. A College Council nominated by the Governor of the Colony advises the Government on all important questions connected with higher education.

LABORATORIES. Botany, Chemistry, Physics, Zoology.

**TERMS.** July-Sept. ; Oct.-Dec. ; Jan.-April.

Admission to the Ordinary courses is restricted to students who have passed the London Matriculation Examination or obtained exemption from it. Others may be admitted to special courses on payment of admission fee, Rs. 10 minimum.

Degree Courses are provided for the B A., B Sc., and B.Sc. (Econ.) of the University of London. By special arrangement the University holds its Honours examinations in Ceylon in Engl., Classics, Oriental Langs., Hist., Philos., Maths., Chem., Botany, and Zool. A Pre-Registration course in Physics, Chem., and Biol. is provided for students of the Ceylon Medical College.

**ORIENTAL LANGUAGES** Courses are provided in Sanskrit, Pali, Sinhalese, and Tamil.

**FEES FOR TUITION.** Full course—Rs. 150 per annum plus Rs. 30 per annum extra for each science subject offered. Single subject Arts—Rs. 15 per term, Science—Rs. 25 per term.

**RESIDENCE** Protestants, Roman Catholics, and non-Christians have hostels under College supervision. Cost of board and lodging, approximately, Rs. 40 p.m.

**SCHOLARSHIPS FOR GRADUATES** The Ceylon Govt. offers 7 of £300 per annum each tenable for 2 or 3 years in a British Univ.—one for Arts, one for Oriental Langs., one for Science, one for Maths., one for Agric. and Forestry, and 2 for Engineering. Candidates must have been resident in the Island for five years.

**PUBLICATIONS** *Prospectus, Annual Report.*

**THE YEAR 1928-29 STUDENTS.** Full-time Arts and Pure Science, 308. Part-time students, 7. **DEGREES OBTAINED (UNIV. of London) in 1928** B A., 7, B Sc., 14.

## CEYLON MEDICAL COLLEGE, COLOMBO

**PRESIDENT**—THE GOVERNOR OF CEYLON

**PRINCIPAL**—Hon J F E BRIDGER, M B, B S Lond., D P.H. Lond.,  
Director of Medical and Sanitary Services of Ceylon.

**REGISTRAR**—Prof F O'B ELLISON, M D, B Ch., B A O., B A Dublin.

### TEACHING STAFF

<i>Anæsthetics, and Materia Med. and Therapeutics</i>	<i>Bacteriology and Tropical Medi- cine</i>
de Silva, J., M B, C.M. Aberd., D.P.H. Camb. Lectr.	Nicholls, L., L.S.A. Lond., M.D., B Chir., B A. Camb Lectr.
1 Asst.	<i>Diseases of Children</i>
<i>Anatomy</i>	Spaar, E. C., M.D., B.S., B A Lond. Lectr.
Smith, A. G., M B Glas, F.R.C.S Eng Prof.	Anderson, Miss C. E., M.B., Ch B. Aberd.
1 Demr., 1 Asst.	

*Electricity, Medical*  
Goonewardene, H. O., M R.C.S.  
Eng., L R.C.P. Lond. Lectr.

*Forensic Medicine and Mental Diseases*  
Parsons, I. D., M B, Ch B. Edin.  
Lectr.

*Gynæcology* [Lectr.  
de Zilwa, L., M D, B Sc. Lond.

*Hygiene*  
Gunasekera, S T., M R C S. Eng.,  
L R C P. Lond., D P.H.  
Lond Lectr.

*Infectious Diseases*  
Jacob, K K, L R C P and S,  
L F P. and S. Glas Lectr.

*Materia Medica and Therapeutics, v Anæsthetics*

*Medicine and Clinical Medicine*  
Cooke, G, M D., B S. Lond.  
Lectr

Mack, E. Garvin, M.D., B S. Lond.  
Lectr.

Spaar, E. C., B.A, M D, B S,  
M R C P Lond Lectr.

de Zilwa (v Gynæc) Clinical Teacher.

*Midwifery*  
Peiris, H M, M D Bruss.,  
F R C S. Edin. Lectr

de Silva, W. L., M.D. Liv, M R.C.S.  
Eng., L.R.C.P. Lond. Lectr.

*Ophthalmology*  
Arndt, E. W., M R C S. Eng.,  
L.R.C.P. Lond., D O M S.  
Lectr.

*Pathology*  
Karunaratne, W. A. E, M D.,  
B S Lond.  
i Demr.

*Pharmacy* [Lectr.  
Pinto, C. F. X, M.P S Lond.

*Physiology*  
Ellison, F. O'B, M D, B Ch,  
B.A O, B.A Dub Prof  
i Asst, i Sub Asst

*Skin Diseases* [Lectr  
Spittel, R L, F R C S Eng.

*Surgery and Clinical Surgery*  
Alles, E. C, F R C S Eng Lectr.  
Spittel, R. L, F.R.C.S. Eng. „  
Gabriel, V, F R C S Eng.,  
M R C.P. Lond.

Lectr (Operative S).  
Paul, S C, M D. Madras, F.R C.S.  
Eng. Clinical Teacher.

de Silva, A. M, F.R C S. Eng.  
Lectr.

*Tropical Medicine, v. Bact.*

The College, founded in 1870, is controlled by a Council composed of members nominated from the teaching staff of the College exclusively, together with the Principal Civil Medical Officer of the Colony and the Assistant P.C.M.O. and the Government Assessor. The control formerly exercised by the College Council over the Medical Profession in Ceylon, apart from Medical Education, was in 1925 transferred to the Ceylon Medical Council. The College is recognized by the General Medical Council.

The Medical Department provides a 5 years' course for the L.M.S. (Ceylon); the Apothecary Department a 2 years' course for the post of Government Apothecary or Estate Dispenser. Admission to the L.M.S. course is open only to students registered by the G.M.C., who are at least 17 years of age and have passed the London matriculation examn. or an exempting examn and a special examn. in Chemistry, Physics, and Biology.

Tuition Fee, per annum, Rs 500. Terms: Oct. 1-Dec. 23, Jan 4-March 31, May 1-July 31.

THE YEAR 1927-28. *Benefactions*: Free Bursaries established by Government for poor and deserving medical students. *New Buildings*: Physiological Dept., Library and Office, in course of erection. *Students*: L.M.S., 100; Apothecary, 61. *Diplomas* granted: L.M.S., 20; Apothecaries, 16.

# KING EDWARD VII. COLLEGE OF MEDICINE, SINGAPORE

PATRON—SIR HUGH CLIFFORD

PRESIDENT OF COUNCIL—A L HOOPS, B A., M.D., D P H. Dub ,  
Principal Civil Medical Officer

PRINCIPAL—G. H MACALISTER, M A , M.D , D.P H Camb

## TEACHING STAFF

<i>Anæsthetics</i>		Tutors in Clin Med	
Barnsley, A ,	M R C S. Eng ,	Norris, V H ,	L M S
	L R C P Lond.	Deciuz, E W ,	L M S
<i>Anatomy</i>		<i>Midwifery and Gynæcology</i>	
Harrower, J G ,	M B , Ch B	English, J. S ,	B A , M D , B Ch ,
Glas.	Prof.	B A O ,	L M Dub Prof
<i>Bacteriology</i>		<i>Pathology and Forensic Medicine</i>	
Young, W. A ,	B Sc , M B ,	Tull, J C ,	M D Tor , M R C P
	B S Lond , D T M and H ,	Lond	Lectr
	Lond.	Tham Ying Khaw, L M S.	Asst in P.
Tham Ying Khaw, L M S	Asst		
<i>Bio-Chemistry</i>		<i>Pharmacy</i>	
Rosedale, J L ,	Ph D. Bonn,	Turner, A J ,	M P S Lectr
	D Sc Aberd		
<i>Biology</i>		<i>Physics</i>	
	[Prof.	Madgwick, E ,	M Sc Durh , Ph.D.
Williamson, K. B ,	M A Camb ,	(amb	Prof
	Dip. Agric. Camb , D I C		
<i>Chemistry</i>		<i>Physiology and Pharmacology</i>	
McOwan, G.,	M A., B Sc., Ph D	Kay-Mouat, J R ,	M A Ox , M B ,
St And	Prof	B Ch , D P H ,	M Sc Brist
		King Edward VII	Prof
		Oliveiro, C J ,	L M S Asst
<i>Eye Diseases, v Surg.</i>		<i>Public Health</i>	
<i>Infectious Diseases</i>		Sayers, F R ,	M D , D P H Dub
Gilmour, C. G B ,	M B., B Ch.		Lectr
Glas	Lectr		
<i>Mental Diseases</i>		<i>Radiology</i>	
Stone, E. R.,	M.B., B.Ch. Camb	Webster, J. S ,	M.B , B S , D.P.H.
	Lectr	Vict ,	D.M R E Camb. Lectr.
<i>Medicine</i>		<i>Surgery</i>	
The Principal	Prof.	Black, K.,	F R C.S Eng , L R C P
Hawes, R. B ,	M B , B Ch. Prof.	Lond ,	L D.S , R C S. (Lectr.
		in Eye Diseases)	Prof.



Smith, C. J., F.R.C.S. Edin. (Senr. Surgeon, Singapore)	<i>Therapeutics</i> The Principal
Prof.	
Dickson-Wright, A., M.S. Lond., F.R.C.S. Eng. (Cln S) Prof	<i>Venereal Diseases</i> Chambers, W. M., M.D. Brux.,
Ballhatchet, W. A., L.M.S. Tutor in Clin Surg (Lectr)	L.R.C.P. and S. Edin., L.F.P. and S Glas Lectr.

## GENERAL INFORMATION

The Coll is a Government institution, partly endowed by public subscription, managed by a Council of Govt. officials and private members, with the Principal Civil Medical Officer as President, advised by a Senate composed of the professors and lecturers with the Principal as Chairman. Since its foundation 211 licentiates have passed out. It owes its name to a large donation from a King Edward VII. Memorial Fund, which enabled the Council in 1913 to endow a Chair of Physiology.

The *Diploma* in Medicine, Surgery, and Midwifery was recognized by the General Medical Council in 1916

*Admission* qualifications. (1) The Cambridge School certificate, with English (special Malayan paper), another language, and Maths. as compulsory subjects, and two of the following—Hist., Geog., Chem., Physics, Bot., Expl. Sc., Applied Maths.; or (2) certificates of equivalent standard, e.g. London Matricn., recognized by the General Medical Council as qualifying for registration as Med. students. Candidates must be of good physique.

**TERMS.** Trinity—June 1 to Aug. 31, Michaelmas—Oct. 1 to Dec. 20; Lent—Jan. 3 to March 31.

**Composition Fee** for complete 6-year course, covering tuition, hospital tickets, and exams (except fees for re-examn), \$750.

**RESIDENCE, ETC.** Hostel for 72 students. There is a Students' Union.

**THE YEAR 1927-28.** *Number of Students*, 112.

# UNIVERSITY OF HONG-KONG

PATRON—H M. THE KING

CHANCELLOR—THE GOVERNOR OF HONG-KONG.

VICE-CHANCELLOR AND PRINCIPAL—WILLIAM WOODWARD HORNELL,  
M.A., C.I.E

CHAIRMAN OF CONSULTING COMMITTEE IN LONDON—SIR CHARLES  
ADDIS, K.C.M.G., LL.D.

REGISTRAR—W B FINNIGAN

LIBRARIAN—Mrs J RING, M.Sc

## PROFESSORS, LECTURERS, ETC.

*Accounting & Business Practice*  
Martin, T. A., A.S.A.A. Lectr.

*Anatomy*  
Shellshear, J. L., D.S.O., M.B.,  
Ch M. Syd. Prof.  
Wong, R. J., M.B., Ch M. Syd.  
Tutor

*Biology*  
..... Reader.

*Chemistry* [Prof.  
Byrne, G. T., M.Sc Manc., A.I.C.  
Chan, C. L. Demr.

*Chinese*  
Au Tai Tin (Hanlin) Reader  
Lai Hsi Chi (Hanlin) Reader.

*Education*  
Forster, L., B.A. Prof

*Engineering, Civil and Mech.*  
Smith, C. A. Middleton, M.Sc.  
Birm., M.I.M.E., A.M.I.E.E.  
Taikoo Prof.  
Fenwick, A. H., B.Sc., A.M.I.C.E.  
Lectr.

Morley, D. W., M.A. Camb. Lectr.  
Redmond, F. A., B.Sc. Lond.  
Prof. of Civil E.  
Yu Shiu Chu, B.Sc. Demr. in C.E.  
Weller, F. C.  
Workshop Instructor.

*Engineering, Electrical*  
Roffey, M. H., D.S.O., M.Sc.,  
M.I.E.E. Prof.  
Day, I. Demr.

*English* [Prof.  
Simpson, R. K. M., M.A. Edin  
Hay, A. L. B., B.A. Camb.  
Lectr. and Tutor.  
Birch, B. G., B.A. Bristol  
Lectr. and Tutor.  
Trayes, F. H. J., B.A. Camb.  
Lectr. and Tutor.

*History*  
Hughes, J., M.A. Camb. Reader.

*Law and Politics*  
Robertson, R., M.A. Reader.

*Mathematics*  
Brown, W., M.A., B.Sc. Glas.,  
A.M.I.E.E. Prof

*Medicine and Surgery, v. infra*  
*Physics*  
Faid, W., M.Sc. Durham Prof.  
Un Po Demr.

*Physiology*  
..... Prof.  
Wong, S. Y., M.Sc., Ph.D. Col-  
umbia Tutor.

*Political Economy*  
Hinton, W. J., M.A. Wales Prof.  
..... Lectr.

**Medicine***Hygiene and Pub. Health*

..... Lectr.

*Medical Jurispr.*Minett, E. P., M.D., M.R.C.S.,  
D.P.H., D.T.M. & H. Lectr.*Medicine*Anderson, J., M.A., B.Sc., M.D.  
Glas., D.T.M. & H. (Eng.) Prof.

..... Lectr. (Radiology).

Li, T. Y., M.B., B.S., D.T.M. & H.  
Asst*Obstetrics & Gynaecology*Tottenham, R. E., B.A., M.D.,  
Ch.B., B.A.O., F.R.C.P.I.,  
L.M., D.P.H. Prof.Pillai, D. Kumarasamy, M.D., B.S.,  
L.M. Rotunda Asst. to Prof.*Ophthalmology*[Lectr.  
Harston, G. M., M.D., D.O. Ox.*Pathology*Wang, C. Y., M.D. Edin., B.Sc.  
Manc., F.R.C.P. Edin.,  
D.P.H., D.T.M. & H. Prof.  
Osman, M. B., M.B., B.S. Asst.  
Wong, S. Y., M.Sc., Ph.D. Lectr.*Pharmacology and Therapeutics*Valentine, D. J., M.B., B.S.,  
M.R.C.S., D.T.M. & H. Lectr.*Surgery*Digby, K. H., M.B., B.S. Lond.,  
F.R.C.S. Eng. Prof.  
Phoon, S. W., M.B., B.S., M.R.C.S.  
Eng. Asst. to Prof.*Tropical Medicine*

Thomas, G. H., M.D., B.S. Lectr.

**GENERAL INFORMATION**

The College of Medicine for Chinese, founded in 1887 for the training of Chinese students in Western Medicine, was incorporated under the name of the Hong-Kong College of Medicine in 1907. It had no building of its own, and its teaching was conducted by permission in various hospitals and other institutions. Between 1907 and 1910 an Endowment and Equipment Fund of \$1,280,000 was raised for a University to include Engineering and Arts as well as Medicine. The cost of the buildings and preparation of the site—\$345,000—was borne by Sir H. N. Mody, the originator of the Fund. Other contributors were the Govt. of China, the Hong-Kong Govt., Swire & Sons, and other firms and Chinese residents of Hong-Kong, Canton, and other places. The Univ. was incorporated in 1911 and formally opened in 1912, when it took over the work of the College of Medicine. The buildings, including class-room accommodation for 500 students, three hostels, laboratories, etc., together with playing-fields, occupy an area of 25 acres. In 1919 were opened the Schools of Physiology, Tropical Medicine, and Pathology presented by three Chinese gentlemen. "The root idea of the Univ. is to provide a place for Higher Education where Chinese youths can remain under the influence of their own parents and guardians, subject to the strong control which Chinese opinion exerts upon young men, instead of being adrift in a foreign country where a liberty unknown to students in the East is allowed to undergraduates" (*Calendar*, 1919-20).

The Court is composed of life, *ex-officio*, and nominated members; the Council is composed of the Chancellor, the Vice-Chancellor, the Treasurer, certain Government officials, the Chinese members of the Legislative Council, Deans of Faculty, and two representatives of the commercial community, with power for the Governor to appoint two additional members. The Senate consists of the Vice-Chancellor, the Director of Education, and the Professors.

MUSEUM of Pathology and Trop. Med. LABORATORIES: Anat., Bact., Biol., Chem., Histol., Path., Physics, Physiol., Trop. Med.; Applied Mechanics,

Materials, Elec. Tech., Power House, Hydraulics, Steam, Elec. Machinery, Elec Traction, Engin. and Carpentering workshops. Hospitals in the vicinity available for clinics, 400 beds; Govt. Bacteriological Inst. and Mortuary.

**FACULTIES.** Medicine, Engineering, Arts.

**TERMS.** Jan. 4–May 29; Sept 16–Dec 11.

**MATRICULATION** examn (framed for use also as a School Leaving examn) includes (a) English, (b) Maths, (c) Chinese Lang and Lit, (d) Latin or a Classical Oriental Lang other than Chinese, (e) Geog, (f) a Modern Lang other than English or Chinese, (g) Mandarin, (h) Hist, (i) Physics, (j) Chem., (k) Higher Maths., (l) Trigonometry, (m) Mechanics, (n) Drawing (a) and (b) are compulsory for all, and (c) for all Chinese candidates. It is necessary to pass in 5 subjects, and for the Med Faculty these must include (c), (d) or (f), and (e) or (h). Medical students are registered after passing an examn. in physics, chemistry, and biology subsequent to general matriculation.

**DEGREES.** B.A., B.Sc. (Eng.), M.A., M.Sc. (Eng.), M.B., B.S., M.D., M.S. The standard aimed at is that of the Univ. of London. To qualify for admission to the Bachelor's degree exams. residence for 8 (in Med—10) terms is necessary, the 5 years' medical course dates from registration as medical student (see preceding paragraph), 3 yrs. are devoted to clinical work subsequent to passing an examn. in anatomy and physiology.

The examn for the Master's degree may be taken at the end of 2 yrs. after graduation as Bachelor. For the M.A. or M.Sc. a thesis is required, for the M.S., evidence of special post-graduate experience. The examn for the M.D. may be taken 5 yrs. after graduation, or at the end of 2 yrs. if evidence is produced of special post-graduate experience.

Graduates of other Univs. who wish to become candidates for a Master's degree must work under the direction of the Faculty concerned for at least 1 yr.

The Degree of B.A. may be obtained in any one of 3 Depts. under 6 "groups" of studies. (a) *Pure Arts and Science*: Group 1, Letters, 2, Experimental Science; 3, Social Science. (b) *Training of Teachers*. Group 4 (a), Science and Maths.; 4 (b), General. (c) *Commerce*. Group 5, Commercial Training.

**FEES** for tuition, \$300 p a; board and lodging, \$300, Univ. Union, \$15; books and charges for materials, etc., in Labs, about \$100. It is claimed that there is no European Univ. where a foreign student can live so cheaply.

**RESIDENCE** All students must reside in the quarters provided, or in hostels founded by religious bodies and conducted under regns. approved by the Council.

**THE YEAR 1927–28.** *Matric Examn*. 30 schools presented candidates (405) for this Examn, some from places as distant as Batavia, Singapore, and Canton.

**STUDENTS** Full-time: total, 294.

**DEGREES.** M.D., 1; M.A., 1; B.A., 16; B.Sc. (Eng.), 10, M.B., B.S., 17.

## APPENDICES



# I

## REGULAR COMMISSIONS IN H.M. FORCES FOR UNIVERSITY CANDIDATES

*Regulations issued with Army Orders* for June 1924 provide for Commissions being granted in the Cavalry, R.A., R.E., Royal Corps of Signals, Infantry, Royal Tank Corps, and R.A.S.C., and in the Indian Army. Nominations of graduates who have certain prescribed qualifications are accepted by the Army Council from the following Universities: I. Oxford, Cambridge, London, Edinburgh, Manchester, McGill, Sydney, Toronto; II. The other universities of Great Britain, Northern Ireland, and the Dominions, except the National Univ. of Ireland. Univs. in Group I. have established courses of military study, and their candidates will be commissioned as senior to candidates whose qualifications are in other respects equal. The grant of graduate commissions in the Indian Army is limited to candidates from univs. in Great Britain and Northern Ireland. Commissions of accepted candidates will be antedated to their 20th birthday or to a later date up to 21½ years of age, according to qualifications as defined in a prescribed scale.

Among the necessary qualifications are to be within the age limits 21-24, and to be unmarried.

The regulations giving full details of qualifications—general, academic, military, and physical—are obtainable from the War Office.

For the present the Army Council are prepared to accept 100 candidates a year from the Univs.

*Permanent Commissions in the General Duties Branch of R.A.F.* Permanent commissions in the General Duties Branch of the R.A.F. are granted to university candidates by the Air Council on the recommendation of their Universities. Officers of the General Duties Branch are taught to fly and undertake flying, technical, and administrative duties of the R.A.F. They are given opportunities for widely differing types of study and of specialized employment.

Recommended candidates must be graduates of a University in Great Britain or Northern Ireland, must be unmarried and within the age limits 21-25. Recommended candidates are invited to attend before a selection board which sits at the Air Ministry, in Oxford and Cambridge. Selected candidates are granted commissions as pilot officers from the date on which they join a training unit and their commissions antedated so as to give them seniority as pilot officers from a date 12 months prior to the effective date of their gazettement to the R.A.F. Candidates who have graduated with first-class honours may be granted an additional antedate of 6 months. Promotion to the ranks of Flight Lieutenant and Squadron Leader is by seniority modified so as to give

accelerated promotion to officers who qualify for technical, staff, or other special employment. Promotion to higher ranks is by selection. Emoluments in the R A F have been fixed so as to allow officers even in the lowest ranks to live on their pay.

Intending applicants should write for information to the Secretary of the Air Ministry, Kingsway, London, W.C 2, applicants from Oxford or Cambridge should also get into touch with the University Air Squadrons. The conditions under which commissions are granted to graduates of certain recognized Universities in the self-governing Dominions can be obtained from the Government of the appropriate Dominion.

## II

### INSTITUTE OF CHARTERED ACCOUNTANTS IN ENGLAND AND WALES

Incorporated by Royal Charter in 1880. *Address*—Moorgate Place, London, E C.2.

The *Preliminary* examn for persons wishing to become Articled Clerks is held in London, Manchester, Birmingham, and Newcastle-upon-Tyne about the middle of May and November. It embraces: Dictation and short English Composition, Arith, Algebra and Geom., Geog, Hist, a foreign language (Latin, Greek, French, German, Italian, or Spanish), and one of the following—Advanced Maths, Physics, Chemistry, Geology, Stenography. Exemption is allowed to persons who have passed certain other examns, such as Oxford Responsions, Cambridge Previous, and London Matriculation. The minimum age for being articled is 16.

The *Intermediate* examn for Articled Clerks who have served half of their term of service embraces Book-keeping and Accounts (including Partnership and Executorship Accounts and the Accounts of Limited Companies), Auditing and General Commercial Knowledge.

The *Final* examn may not be taken until 2 yrs have elapsed since passing the Intern, except that graduates articled for 3 yrs. only may take it 1 yr. after passing the Intern. No person may present himself for the Final unless he has served under Articles in England or Wales to a member for 5 yrs (or, in the case of a graduate of a Univ of the U.K, for 3 yrs). It embraces Advanced Book-keeping and Accountancy, including Costing and Taxation, Auditing, Partnership and Executorship Law and Accounts, Principles of Law of Bankruptcy and of Law relating to Joint Stock Companies, the Rights of Liquidators, Trustees and Receivers, Principles of Mercantile Law and of Law of Arbitrations and Awards, and as an additional subject, either Banking, Currency and Foreign Exchanges, Actuarial Science, or Economics.

The *Fee* for admission to any of the examns is 2 gs, and for Certif.



of Exemption 1 g. Thirty days' notice is required, and late entries will only be accepted up to 15 days on payment of a late fee.

No person may be admitted as *Associate* (fee 10 gs.) who has not passed the Final examn. The minimum age for admission is 21. Any person who, being an Associate, has for 5 yrs been continuously in practice as a Public Accountant may be admitted as *Fellow* (fee 10 gs.). Distinctive initials F C A , A C A .

## SOCIETY OF INCORPORATED ACCOUNTANTS AND AUDITORS

Incorporated 1885 Address—50 Gresham St., Bank, London, E.C 2.  
*Branches* . Glasgow, Dublin, Belfast, Montreal, Melbourne, Sydney, Cape Town, Johannesburg Members (numbering upwards of 4600) are designated “ *Incorporated Accountants* ”

Examinations are held ordinarily in May and Nov in London, Manchester, Leeds, Cardiff, Glasgow, Dublin and Belfast One month's notice is required They are also held in Australia and S. Africa

The *Preliminary* (fee 1½ gs ) embraces English (General Knowledge, including main outlines of Modern Engl History and General Geog. , Essay , questions testing knowledge and command of Engl ), either French or German or Latin, Maths Exempting examns. Matricn. of approved Univs in the British Empire, and certain school certificate examinations

The *Intermediate* (fee 2 gs ) embraces Book-keeping and Accounts, including Partnership and Executorship and Cost Accts , General Commercial Knowledge and Comm Law, Powers and Duties of Liquidators, Trustees, etc

The *Final* (fee 2½ gs ) embraces, in addition to these, Advanced Accounting; Auditing, Merc , Jt. Stock Co , and Bankruptcy Law, Statistical Methods; Economics.

Service under Articles of Clerkship (after passing or obtaining exemption from the Prelim examn ) is a condition precedent to sitting for the Intern and Final examns , subject to special regns in favour of Clerks to Public Accountants of long service (9 yrs. before admission to the Final). The period of service under Articles is ordinarily 5 yrs., for a graduate of a Univ. of the U.K. 3 yrs

Admission to *Associateship* (fee 10 gs ) is open to a Public Acctt., Principal Clerk to a P A , and to Acctt in service of the Govt. or of a corporation or public body, under certain conditions, who has passed the prescribed examns Admission to *Fellowship* (fee 15 gs.—for Associates, 10 gs ) is open to a Public Acctt in the U K or Overseas Dominions after continuous practice as such for 7 yrs (in the case of an Associate, 3 yrs.), provided he has passed the prescribed examns. Distinctive initials: A S A A , F S A A .

*Publications* Yearbook, 3s.; *Journal*, monthly, 12s. 6d. p.a.; *Examn. Questions*, 1s.

## CHARTERED ACCOUNTANTS OF SCOTLAND

The Society of Accountants, Edinburgh	$\left\{ \begin{array}{l} \text{incorp'd} \\ \text{by Royal} \\ \text{Charter} \end{array} \right\}$	1854.
The Institute of Accountants and Actuaries, Glasgow		1855
The Society of Accountants, Aberdeen		1867.

Secretary of the General Examining Board—D. Norman Sloan, C A ,  
190 West George St , Glasgow

A five-year apprenticeship with a Chartered Accountant of Scotland is required (reduced to 3 for graduates of a Univ in G B or Ireland) Minimum age for apprenticeship, 17 years Fee of £10 10s payable on registration of Indenture of Apprenticeship, to Society or Institute to which apprentice's master belongs Persons desirous of serving an apprenticeship must pass an examn in Engl , Maths , a language other than English , and a 4th subject, of the standard of the Scottish Entrance Board's examns , or the equivalent (graduates of a Univ. in G B or Ireland exempted) The Intermed Examn, fee £1 11 6, comprising Arith and Statistics, Actuarial Science, Book-keeping, Accounting, must be passed during the last 3 years of apprenticeship. The final examn may be taken in two divisions either separately or together, the 2nd being taken after the expiry of the apprenticeship. Fees, £1 . 11 6 and 2 gs (or £3 . 13 6) Certain courses must be taken at one or other of the local univs before the apprentice presents himself for either of the two divisions This examn. embraces Pol Econ , appropriate Scottish Law, Book-keeping and Accounting, Insolvency, Trust, Income Tax, Cost, and other Accounts The examns are held in May and December Members of these Societies use the distinctive initials " C A "

## INSTITUTE OF ACTUARIES

Established 1848. Incorporated by Royal Charter, 1884 *Address*  
—Staple Inn Hall, Holborn, London, W.C 1.

Examinations qualifying for membership are held in May of each year, or at such other times as may be prescribed by the Council Candidates must give 14 days' notice. Applications for examination outside the U.K. must reach the Hon. Secretaries 2 months prior to the date of examn.

Candidates for *Studentship* must have passed: (1) a preliminary examn , (2) Part I. of the Institute's own Examn. Syllabus (Advanced Algebra, Finite Differences and Elementary Calculus)

Candidates for *Associateship* must be " Students " and have passed Parts I, II , and III of the Syllabus. Candidates for *Fellowship* must be Students or Associates and pass the 4 Parts of the Syllabus. *Examn. Fees*, 1½ gs. for each Part. Distinctive initials : A.I.A., F.I.A.

## THE CHARTERED INSURANCE INSTITUTE

Founded 1897, and incorporated by Royal Charter, 1912. *Address*—11 Queen St., London, E.C.4. Membership consists of the members of Local Insurance Insts., of which there are 39 in the U.K. There are also 9 affiliated Institutes in Toronto, Adelaide, Melbourne, Sydney, Perth, Cape Town, Johannesburg, Hobart, and Launceston. Examns. qualifying for Associateship (A.C.I.I.) and Fellowship (F.C.I.I.) are held in Feb. and March. Journal published annually.

## III

## INSTITUTE OF PUBLIC ADMINISTRATION

Established 1922 to develop the Civil Service and other Public Services (both national and local) as a recognized profession, and to promote the study of Public Administration in this and other countries. *Offices*—Palace Chambers, Bridge St., Westminster, S.W.1

Regional Groups have been founded in Birmingham, Manchester, Edinburgh, Liverpool, Leeds, Nottingham (East Midlands), Sheffield, Newcastle, Glasgow, Pretoria (South Africa), and Adelaide (South Australia), and are in course of formation at Bristol, East Anglia, Cardiff, and Belfast. Monthly lectures for members and associates are held in the towns where Groups have been already founded, and at Montagu House, Whitehall, London. Courses of lectures are also given in connexion with the Universities of Birmingham, Manchester, Liverpool, Leeds, Sheffield, Glasgow, and London. Subscription—Members, £2 : 2s., Associates, 10s. 6d. per annum, and 25s. for members outside Great Britain and Ireland. The Journal, "*Public Administration*," is published quarterly by the Oxford University Press (annual subs. 10s. post free), and a members' circular (*Monthly Notes*) each month from Oct. to July.

## IV

## NATIONAL AGRICULTURAL EXAMINATION BOARD

Appointed by the Royal Agricultural Society of England (16 Bedford Sq., London, W C.1) and the Highland and Agricultural Society of Scotland (3 George IV Bridge, Edinburgh), and including representatives of the Ministry of Agr. and Fisheries and the Board of Agr. for Scotland

(1) An examn in the SCIENCE AND PRACTICE OF AGRICULTURE is held annually for the National Diploma in Agr. (N D A). Qualifications for admission . a certificate from a recognized Agr. College that his attainments in General Botany and Chemistry, Geology, Physics, and Mechanics justify the candidate's admission , or evidence of (a) having passed the 1st B Sc or Interim examn in Science of a British Univ. , or (b) having passed the Oxford or Cambridge School Certificate examn , with evidence of having continued study of science for at least a yr , and a certif in Elem Chem and Physics and Botany of Group H of the Oxford Higher Local or in Group E of the Cambridge Higher Local examn , or (c) Interim Leaving Certif of the Scottish Ed Dept , with evidence of having continued study for at least another year, and the Higher Leaving certif in Science, including Chem and Botany Before the first three written papers are taken, candidates must also produce evidence of having resided on a farm for a period (or 2 periods) covering a complete year of farming operations The subjects of the written papers are Practical Agr. , Farm Machinery and Implements ; Land Surveying and Farm Buildings ; Agr Chem., Botany, Book-keeping and Zoology, Vet Sc They may be taken all at one time, or 3, 4, or 5 in one yr. and the remainder the next yr. *Fee* (non-returnable) for entire examn., 6 gs.

(11.) An examn in the SCIENCE AND PRACTICE OF DAIRYING is held annually in England and in Scotland for the National Diploma in Dairying (N.D.D ).

Qualifications necessary for admission (a) a Diploma course in the subjects of the Examination covering two academic years, including at least 6 session months' instruction in practical dairy work at an approved dairy training institution , also (b) at least 6 months on an approved dairy farm (not concurrent with period mentioned under (a)) The examn includes tests of practical skill in Dairying and of the candidate's knowledge

The examns are held in England and in Scotland. A candidate may not enter for the examns. in both countries.

Revised Regulations and Syllabus came into force for the N.D.D. Examn. in 1928.

*Examn. papers of past years* may be had at 6d. a set. A detailed syllabus of subjects of examn. is also obtainable.

## NATIONAL DIPLOMA IN HORTICULTURE

The Examns. for this Diploma (N.D. Hort.) were established in 1911 by the ROYAL HORTICULTURAL SOCIETY (Vincent Square, London S.W.1) with the approval of the Board of Agriculture. They are usually held in May and June in London and elsewhere. The *Preliminary* examn is open to candidates who have received a sufficient general education, who are at least 21 years of age and have served at least 4 years in a public or private garden or nursery, or taken a 4 years' course in an approved Horticultural Institution, or spent 4 years partly in the former and partly in the latter way. The *Final* examn. may be taken by candidates who have passed the preliminary examination and have been regularly employed in the practice of Horticulture for not less than 6 years.

## NATIONAL POULTRY DIPLOMA EXAMINATION BOARD

This Board, formed by the National Poultry Council, includes representatives of the Ministry of Agriculture, the Scottish Board of Agr., the Dept. of Agr. for Northern Ireland, Leeds Univ., S.E. Agr. College (Wye), Harper Adams Agr. College (Reading Univ.), and several other bodies. The Chairman is P. Hedworth Foulkes, B.Sc., late Principal of Harper Adams Agr. College, Newport, Salop. It holds examns annually and awards a National Diploma in Poultry Husbandry (N.D.P.) and a Public Elementary and Secondary School Teachers' Certificate in Poultry Husbandry.

Qualifications for admission to the Diploma examns (fee 5 gs.):  
 i Passing the Board's Prelim. examn (fee 2 gs.) in Elem. Chem., Physics, Biol., and Maths., or producing other satisfactory evidence, *e.g.* Matriculation certificate, of knowledge of the above-mentioned sciences, ii Training in Poultry Husbandry in a recognized Teaching Instn. for at least a year, iii Experience on an approved Poultry Farm for at least a year. The subjects of the examn. are Poultry Husbandry in all branches and, in so far as they relate to this, Agr. and Horticulture, Physiology, Pathology, Chem. and Physics, Building and Appliance Construction, Bookkeeping. The next examn. will be held in Sept. 1929.

Applications receivable by the Secy., National Poultry Council, 20-21 Essex St., London, W.C.2.

## V

## ROYAL INSTITUTE OF BRITISH ARCHITECTS

Founded 1834 Incorporated by Royal Charter in 1837. *Address*—  
9 Conduit St., Regent St., London, W.1.

The Recommendations of the R.I.B.A. in regard to preliminary and professional education imply a course of professional training in schools occupying at least five years, during the last 2 yrs. of which the student would be working part-time in an architect's office—the training being kept under the supervision of the Board of Architectural Education of the R.I.B.A. or its delegates during the whole term.

*Registration as Probationer, R.I.B.A.* A candidate must submit a certificate of passing some recognized Public examn., or other evidence of general education covering required subjects, and, unless he has passed an Entrance examn. in Freehand Drawing at one of the Schools of Architecture recognized for exemption from the R.I.B.A. examinations, evidence in the shape of drawings that he has an elementary knowledge of this subject. A list of such Schools is given in the following paragraph and particulars regarding them are given in an explanatory Pamphlet on Exams., price 1s. Registration fee, 4 gs.

The *Intermediate* examn. (fee 5 gs.), open to Probationers of at least 19 yrs. of age, tests their progress while engaged as pupil, improver, or assistant in an office, and passing it qualifies for election as *Student*, R.I.B.A. Exemption from this examn. (but not from the fee) may be granted to Probationers who have attended the necessary courses at one of the following schools. Architectural Assn., London; Northern Polytechnic, London; Universities of Cambridge, Liverpool, London, Manchester, Sheffield; Birmingham School of Arch.; Armstrong College (Newcastle); Leeds College of Art; The Technical College, Cardiff; Royal West of England Academy, Bristol; The Leicester College of Arts and Crafts; The Municipal School of Arts and Crafts, Southend-on-Sea; Robert Gordon's College, Aberdeen; Edinburgh College of Art; Glasgow Sch. of Arch.; McGill Univ., Montreal; Univ. of Toronto; Bombay Sch. of Art; Sydney Univ. The R.I.B.A. desires that Students within reach of these Univs. and Schools should avail themselves of the opportunities thus afforded rather than submit themselves for the examn. without such recognized training.

The *Final* examn. (fee 6 gs.) for the *Associateship*, R.I.B.A., is open to Students of at least 21 yrs. of age. Before admission a candidate must submit for approval designs in answer to at least 4 problems set by the Board, and a thesis in Historical Arch., or in Science as applied to building, or in Design, including Decoration. Exemption from the *Final* examn., with the exception of that portion which deals with Professional Practice, is given to Students who have completed successfully a Diploma or Degree course covering at least 5 years at the Arch.

Assocn., London, Liverpool Univ., London Univ., Manchester Univ., Robert Gordon's Colleges, Aberdeen, Glasgow Sch. of Arch., Edinburgh College of Art, McGill Univ., Montreal, Sydney Univ.

A *Special* examn (fee 10 gs) for the Associateship is held in July and Dec. It is open to Architects in practice and Assistants not less than 30 yrs of age and exempts from the Prelim and Interim examns. and from submitting testimonies of study

A *Licentiate* (L.R.I.B.A.) is a fully qualified corporate member, and is entitled to the designation "Chartered Architect."

Examns (fee 3 gs) qualifying for candidature as *District Surveyor* in London or *Building Surveyor* under local authorities are held periodically

*Allied Societies* and branches thereof exist in 42 towns in the U.K., in Montreal, Edmonton (Alta.), Toronto (Ont.), Regina (Sask.), Vancouver (B.C.), Winnipeg (Man.), Moncton (N.B.), Adelaide, Melbourne, Brisbane, Sydney, Hobart, Perth, Wellington (N.Z.), Cape Town, Bulawayo, Durban, Johannesburg, Nairobi, Singapore, Bombay, and Rangoon.

The Royal Institute of British Architects offers a number of Prizes and Studentships, particulars of which are published annually in the *R.I.B.A. Prizes and Studentships Pamphlet*, to be obtained at the R.I.B.A., price is a copy

*Publications* include the *Kalendar*, 3s 9d, containing, *inter alia*, a historical sketch, regns. for international and other competitions, and information about the allied societies. *Journal*, in 20 numbers annually, is 6d each number. *Explanatory Pamphlet on Examns*, 1s and postage. *Past Examns Questions*, price 1s 6d and postage

## VI

### AUCTIONEERS' AND ESTATE AGENTS' INSTITUTE OF THE UNITED KINGDOM

(Founded 1886)

*Address*—29 Lincoln's Inn Fields, London, W.C. 2.

Examinations are held annually in March in London, Birmingham, Bristol, Cardiff, Manchester, Newcastle-upon-Tyne, and Belfast.

The Preliminary (fee 1 g) is for the grade of *Student*, the Intermediate (fee 2 gs) for the grade of *Licentiate*, and Final (fee 3 gs), or the Direct Final (fee 5 gs), for the grades of *Associate* (A.A.I.) and *Fellow* (F.A.I.).

The subjects of the *Preliminary* are English Compn., Maths, Geog., Hist. of England, General Knowledge, one foreign language (Elem. Latin, French, Spanish, Italian, or German), and either Shorthand or Elem. Book-keeping. Exempting examns.: Matricn. of a Univ. in the U.K., Prelim. of Law Soc., Surv. Instn., Inst. C.A., Soc. of Inc.

Accetts. and Audtrs., Special Army Ed. Certif., London Chamber of Com (Comm), and the school certificate examns conducted by certain Universities.

The *Intermediate* is open to Student Members and Articled Clerks and others who have gained practical experience Minimum age, 19 The subjects are Book-keeping, Plans and Mensuration, Valuation Tables, Law of Landlord and Tenant, Dilapidations and Fixtures, and 2 out of 5 other subjects. Exempting examns. London B Sc (Estate Management) Final, and, as regards some of the subjects, the Interim B Sc The holder of a degree of a recognized University is exempt from the Interim Examn and may enter for the Ordinary Final *This examination is open only to those who have passed or been exempted from the Institute's Preliminary Examn* unless the candidate is 25 years of age or over, when he is required to take the 2 additional subjects of English and Arithmetic at the Interim Examn

The *Final* is open to persons who have passed or been exempted from the Interim ; the Direct Final, to persons not less than 25 yrs of age who fulfil certain conditions as to practical experience. The subjects of the Final are. Valuations, Law of Vendor and Purchaser, Elements of Law of Receiverships and Mortgage, Arbitrations and Compulsory Purchase, Sanitation, Law and Practice of Rating and Taxation, Report Writing, and two out of a list of 7 other subjects The Direct Final in addition to the 9 subjects of the Ordinary Final Examn includes also the following from the Interim list. Bookkeeping, Plans and Mensuration, and Law of Landlord and Tenant

Minimum age for admission to Student grade, 16, Licentiate grade, 19, Associate grade, 21, Fellow, 25 Candidates must also fulfil specified conditions as to practical experience

*Publications.* Regns and Syllabus with list of Text-books and particulars of Prizes and *Scholarships* (value up to £50), 1s. Last Examn Questions, 2s

THE COLLEGE OF ESTATE MANAGEMENT, 35 Lincoln's Inn Fields, London, W.C.2 Incorporated by Royal Charter. Instruction—daytime, evening, and by postal tuition—in preparation for the examns of the Univ. of London (B Sc degree), the Surveyors' Instn, the Auctioneers' Institute, and the Land Agents' Society. Principal, B. W. Adkin, F S I, F A I, F E S, M R A S E, Barr-at-Law Directors of studies in Urban and in Rural Science and 30 other Lectrs and Instrs

## THE LAND AGENTS' SOCIETY (INCORPORATED)

*Address*—12 Little College Street, London, S W.1.

Qualifications for (1) Fellowship: Having passed the Society's examns. and being suitable in other respects (position and experience). The Council have special dispensing powers to elect as Fellows, without examn., Land Agents of exceptional standing and experience. (2) Qualified Associateship. Having passed the Society's examns. and having had at least 2 yrs' practical experience other than as a pupil



paying a premium. (3) Associateship: Being a Pupil with a Land Agent who is, or is qualified to be, a Fellow or Qualified Associate.

Examinations annually in March Entries up to Dec. 1. Scottish candidates are examined in Scotland Fee for each Part, 4 gs Part I comprises Agric (Elementary), Surveying, Agr. Law (Elem.), Taxation and Charges on Land, Building Constn, etc, Forestry, Book-keeping Part II is of an advanced character to test practical knowledge. Candidates, 35 years of age and over, with seven years' responsible experience are permitted to sit for Part II. as a Direct Fellowship Examination Syllabus and previous Examn Papers may be obtained from Secretary.

*Journal*, published monthly, 2s 6d to non-members.

## VII

### THE INSTITUTE OF BANKERS

Founded 1879 *Address*—5, Bishopsgate, E C 2. Local centres in Bath, Bedford, Birmingham, Blackpool, Bournemouth, Bradford, Brighton, Bristol, Cambridge, Cardiff, Chatham, Chester, Derby, Eastbourne, Exeter, Gloucester, Hull, Ipswich, Leeds, Leicester, Liverpool, Middlesbrough, Newcastle-on-Tyne, Northampton, North Staffs, North Wales (two Centres), Norwich, Nottingham, Oxford, Peterborough, Plymouth, Reading, Sheffield, Southampton, Southend, and Swansea. Subscription  $\frac{1}{2}$  g to 2 gs p a

Qualifications for election to Associateship: (a) 10 yrs.' service in a Banking Establishment, or (b) passing approved examns, or (c) being a graduate of a University and on the staff of a Banking Establishment. Ordinary members are elected from the staff of any Banking Establishment on the Council's list. Associates by examination may add to their names or signatures, "Cert. A I B"

*Examinations*, open to members only, (1) For the Associate Certificate, held in April in London, the provinces, and abroad Latest entry date—February 15th \* Subjects: Practice and Law of Banking, Economics, Engl Compn, Comml Geog, Foreign Exchange and Accountancy, optional—French, Spanish, Italian, Portuguese, German. The examn. is divided into two parts extending over not less than 2 yrs. No Member may enter for the Associate Examination unless he has either passed a Qualifying Examination or obtained exemption on account of passing one of the recognized "First Examinations" or on account of his age and length of bank service. Examns. *exempting* from Part I. in Practice and Law,—examns for B Com of Bombay or Lucknow with Banking as special subject, in Econs.,—examn. by Prof Knoop at Univ. of Sheffield Certain certificates obtainable in London, Manchester, Leeds, Birmingham, Bradford, Cardiff, Liverpool, Scotland, and Ireland are also recognized. (ii) For Diploma in French, Spanish,

\* For members outside Europe: January 31.

Portuguese, Italian, and German, held annually in the spring *Scholarships* entitling holder to spend 2 months in a bank abroad are awarded in connexion with the Diploma examns. *Classes* in preparation for the Language examns. are held by the Institute, and in preparation for all subjects by the local centres.

Courses of *Lectures* in Banking and kindred subjects are given during the winter in London and some provincial towns. *Library* (lending), 6500 vols. *Journal* monthly, Oct. to June, 1s 6d. (15s. p.a., post free). *Examn. Questions*, 6d. each yearly set.

## VIII

### INSTITUTE OF CHEMISTRY OF GREAT BRITAIN AND IRELAND

Founded 1877. Incorporated by Royal Charter, 1885. *Address*—30 Russell Sq., London, W C 1. *Library* of 4500 vols. *Laboratories*, available for use for examination purposes by other institutions as well as for the I.C.'s own examns. *Appointments Registers* of Fellows, Associates, Registered Students, and of Laboratory Assts.

*Studentship*. Minimum age, 16. Annual subs., 10s. A candidate for admission must have passed an approved examn of matricn. standard and must be undergoing a course of preparation and training for the practice of Chemistry in one of the teaching institutions recognized by the Council, or as a pupil of a Fellow of the Institute in a lab or works approved by the Council.

The institutions recognized for the training of candidates for the Examns of the I C are those in connexion with the Univ. of London shown on pp 102 *et seq* —(U), (K), (Im), (Bk), (EL), (2), (5), (8), (10) (evening), (11), (12), Armstrong Coll, Newcastle, Constituent Colls. of Wales and of N U I, all other Univs. in the U K., Univ Colls, Exeter, Leicester, Nottingham, and Southampton; Belfast, Birmingham and Blackburn Munic Tech Schools, Bradford City Tech. Coll, Huddersfield Tech Coll, Leeds Central Tech Sch, Loughborough Tech. Coll, Salford Royal Tech Inst, Wigan Mining and Tech Coll, Cardiff Tech. Coll, R Tech Coll. Glasgow, Heriot-Watt Coll, Paisley Tech Coll., C Sc I.; Overseas Univs.—McGill, Queen's (Ontario), Toronto, Adel, Melb, Syd., W Aust., N.Z., Cape Town, South Africa—Coll, Sc. Tral, Stellenbosch.

The compulsory subjects of training are Chem., Physics, and Maths., the course in Chem. extending over 4 yrs. Evening class training is recognized if the candidate is engaged in the practice of Chem. during the day and attends a systematic course previously approved by the Council extending over 5 yrs., and is recommended by his teachers. Evidence of having passed the class or other examns is required.

The A I C. examn. in General Chemistry (inorganic, organic, and physical), fee 5 guineas, occupies 6 days, including 4 days of practical

Chemistry, and is open to students who have completed the prescribed training or have obtained a degree including the necessary subjects, and worked for a further year in a recognized Univ. or Coll., or for 2 yrs. with a Fellow in a lab. or works approved by the Council, or have been otherwise trained to the satisfaction of the Council and been engaged in the study and practice of Chem for 8 yrs. The A I C. may be granted (without examn) to graduates with 1st or 2nd Class Hons in Chem, or holders of diplomas recognized as equivalent, who have completed a 4 yrs.' course in the requisite subjects or a 3 yrs' course supplemented by approved experience in laboratories or works. The Institute recognizes the Final B Sc. with 1st or 2nd Class Hons in Chem. of all Univs. of the U K., of McGill, Toronto, Adelaide, Melb., Syd., the Final M A. of the Univ. of Cape Town with Chem as principal subject, and the Final B A. of Toronto with 1st or 2nd Class Hons in the graduating Dept of Chem. and Mineralogy. Applications from candidates having diplomas of a specialized character will be decided on their merits. Entrance fee, 2 gs. Annual subsn, 1½ g.

The F I C examn, fee 10 gs. (for Associates, 5 gs), occupies at least 5 days in any one of the following branches. Inorganic, Physical, Organic, Agricultural, Foods and Drugs and Water, Bio-Chemistry, Industrial Chemistry, with special reference to particular industries. Open to Associates of 3 yrs' standing; in exceptional cases to other candidates who have been systematically trained and had considerable experience. The F I C may in exceptional circumstances be granted without examn to Associates of 3 yrs' standing who have carried out original research or devised processes or inventions or given other sufficient evidence of knowledge and ability. Entrance fee, 5 gs. Annual subsn, 2 gs.

Arrangements have been made between the Board of Education and the Institute for the award of national certificates in Chemistry to students in technical schools and colleges in England and Wales (Rules 100, 1921, 2d). Under this scheme the Institute in conjunction with the Board approves schemes of training submitted by the technical schools or colleges, for the award of certificates for part-time grouped courses, including in addition to chemistry suitable courses in physics, mathematics, and cognate subjects. Courses for Part-time Course certifs. are designated *Senior* for the Ordinary and *Advanced* for the Higher certif. A similar scheme is in operation in Scotland, in conjunction with the Scottish Education Department, and a further scheme will shortly come into operation in conjunction with the Ministry of Education, Northern Ireland. Holders of Part-time Certificates can ascertain from the Registrar of the Institute how far their training may be recognized as qualifying for admission to the examn. for its Associateship.

*Publications.* *Register of Members; Regns for Admision; Examn. Papers*, 1s. a set; *List of Official Chemical Appointments*, 5th edition, Jan. 1924, 5s. net. (This includes a *List of Societies and Institutions* directly interested in the advancement of Chemical Science and Technology, with information as to their chief objects) *Journal and Procdgs.*, 6 parts annually, 2s. each; *History of Inst.*, 21s., *The Profession of*

*Chemistry*, 2s. 6d. ; *Lectures* (monographs on various industries—Branches of chemical practice, etc ) at various prices.

## CHEMICAL SOCIETY

*Address*—Burlington House, London, W.1. Professional qualification not required. Entrance by ballot, annual subs. £3. Monthly Journal and Abstracts. Annual Reports on the progress of Chemistry. Research Fund from which grants are made (to the amount of about £700 p a ) for purchase of special materials for research.

## IX

### INSTITUTION OF CIVIL ENGINEERS

Established 1818. Incorporated by Royal Charter, 1828. *Address*—Great George St., Westminster, S W.1. *Telegrams*—Institution, London.

Examinations, (1.) Preliminary and (ii) Associate Membership, are held annually in April and Oct. in London. Entries receivable up to Feb. 28 and Aug. 31 The April Prelim. and Oct. A M may also be held, the former in Manchester, Glasgow, and Newcastle-upon-Tyne, the latter in the King's Dominions overseas. (i) may also under certain conditions be held overseas.

For admission to (1) nomination by a corporate member is necessary, and conditions relating to practical training have to be fulfilled. It includes English, Maths, and one language and one science subject from the following Elem Chem, Elem. Mechanics, Elem Physics, Latin, Greek, French, German, Ital, Span, Port, Dutch, Hindustani, Russian

Admission to (ii) is open to (a) *Students* of the Instn. (v *infra*) of at least 1 yr.'s standing between ages 21 and 26, and (b) persons of at least 25 yrs of age who have passed or are exempt from (1) and are in other respects (training, experience, etc) qualified for election into the Institution. It includes papers in (A) Mechanics, Strength and Elasticity of Materials, Electricity and Magnetism, *either* Theory of Structures *or* Theory of Machines, (B) 2 out of 9 other subjects; and (C) Engin Drawings, Specifications, and Quantities.

For admission as *Student* age must be between 18 and 25, and candidate must be recommended by a corporate member under whom he is or has been in course of preparation and training in accordance with the Instn.'s prescriptions. A candidate for election as *Associate Member* must satisfy the Council as to his training and experience, and must, unless exempted, pass (i.) and (ii.). Exemption from (1) is granted to graduates of any Univ. of the Empire, and Whitworth Scholars and, subject to provisos, persons who have passed certain school and matriculation examns. in Great Britain and Ireland, Canada

(McGill Univ.), Australia, New Zealand, and South Africa. Exemption from sections (A) and (B) of (u) is granted for the following degrees if taken after 3 yrs.' study in the several Univs in accordance with their regns. : Oxford B.A. with Hons. in Engin. Sc Final Hons. Sch. ; Camb. B.A. Hons Mech Sc Trip , BSc in Engin. of Edin., Glas., St And , Belf , S Africa, Cape Town, and Witwatersrand in " Civil " or " Mechanical and Electrical " , B A I of Dublin , B E Nat Univ , Ireland ; and, subject in some cases to certain qualifications, engineering degrees of all the other Univs of England and Wales, and of McGill, Adelaide, Melbourne, Queensland, Western Australia, Sydney, and New Zealand

Members and Associate members are entitled to the designation *Chartered Civil Engineer*.

*Publications.* *Report on Methods of Educn. and Training of all Classes of Engrs.*, 1906, Wm. Clowes, 94 Jermyn St., S.W.1, post free, 11d., *Report of Confce. on Educn. and Training*, June 1911 ; Papers and Reports on Technical Subjects

## INSTITUTION OF ELECTRICAL ENGINEERS

Founded 1871. Incorporated by Royal Charter, 1921 *Address*—Savoy Place, Victoria Embankment, London, W.C.2. *Telegrams*—Voltampere, Phone, London

Examinations are held in London and other centres in Great Britain twice annually, namely, in May and November, of candidates for *Associate Membership* Applications should reach the Secy not later than Apr 1 and Oct 1 respectively Examns may also be held abroad at the discretion of the Council. Part I. of the examn. includes English essay or translation into English from French, German, Italian, or Spanish , Applied Mechanics, Electricity and Magnetism , and either Heat, Light, and Sound or Chem. Part II consists of papers on technical subjects only.

A candidate for the Associate Membership is required to possess an approved educational qualification, or to pass the examn or to present a thesis, paper, or other written work on Electrical Engineering or its applications He must also be at least 25 years of age or have been a Student of the Institution for at least 3 yrs , must be engaged in one of the branches of El Eng , and satisfy the Council as to his experience, etc.

An Engineering Degree of any University in the British Empire approved for the purpose is recognized, subject to certain provisos, as an approved educational qualification Numerous diplomas in electrical engineering are likewise recognized

*National Certificates and Diplomas* are awarded by the Institution and the Board of Education jointly on lines similar to those for Mechanical Engineers ; v. *infra*.

## INSTITUTION OF MECHANICAL ENGINEERS

Established 1847    *Address*—Storey's Gate, St. James's Park, London, S.W.1.    *Telegrams*—Mech. Parl, London.

Examinations are held in London and at provincial centres in April and Oct., and at overseas centres in Oct.: (1.) *Studentship* (minimum age, 16), including papers in English, Elem. Maths, Elem. Mechanics, and either Physics or Chem. (11) The *Associate Membership* Examination, including—Section A: a Modern Lang, App Maths., Physics and Chem.; Section B: Theory of Machines and Machine Design, Properties and Strength of Materials, and an optional technical subject, also Section C: The Economics of Engineering.

A candidate for election as *Graduate* must, unless exempted (*see below*), have passed Sections A and B of examn. (11), and have received or be receiving sufficient regular training as a mechanical engineer to fit him for employment as such. Minimum age, 21.

A candidate for election as *Associate Member* must be a practising Engineer at least 25 yrs. of age. The passing of the A.M. or equivalent examn. is an indispensable qualification up to the age of 33, and he must, in addition, have been regularly trained as a M.E. and have had sufficient practical experience in the direction or design of Engineering work.

Examinations exempting from (1) graduateship of any Univ. in the British Empire, certain examns. of Matriculation Standard held in South Africa, Australia, New Zealand, and Hong-Kong.

Examns. exempting from Section A and Section B of examn. (11): Engineering Degrees of any Univ. in Gt. Britain, Ireland, British Dominions, or India, except such as may be specifically excluded, Manc. Certif. in Technology, Mech. or El. Eng., Eng. Degree of a Foreign Univ. if recognized by the Council; Diploma in Eng. of Univ., King's, or City and Guilds (Engin.) Coll., London, Dipl. of City and Guilds of Lond. Inst. if taken by matric. student, Final Dipl. in Mech. or El. E. of R.T.C., Glas., if approved Matricn. examn. passed before beginning course, R.N. examn. qualifying as Lieut. (E), R.N. College Prof. Certif. for Constructors; Inst. C.E., Assoc. M.; Whitworth Scholps. and Exhibns. A degree in Commerce of a British Univ. exempts from Section C.

*National Certificates and Diplomas* are awarded by the Institution in conjunction with the Board of Education to students of approved Technical Schools and Colleges (v. Board of Education, Rules 106, 1921, 1d). Certificates are awarded in respect of part-time and Diplomas in respect of full-time grouped courses. Part-time courses are classified as *Senior* or *Advanced*, the latter aiming at reaching, within the limits of the subjects covered by them, the standard of University work. Full-time courses are also classified as *Senior* (for Secondary School students aged 16) and *Advanced* (for Secondary School students aged 17 or 18 or students who have been for 2 yrs. in regular employment with concurrent instruction at senior or advanced

part-time courses) The courses must extend over at least 2 yrs. and the senior part-time course should normally extend over 3 The Certifs. and Diplomas relating to Senior and Advanced courses respectively are known as *Ordinary* and *Higher* The *Ordinary* Certifs and Diplomas exempt candidates from certain subjects of the Studentship Examination, and the *Higher* Certifs. and Diplomas from certain subjects of the Associate membership examn Special conditions apply to holders of both the *Ordinary* and *Higher* awards

## ROYAL AERONAUTICAL SOCIETY

(with which is incorporated The Institution of Aeronautical Engineers)

Founded 1866 Address—7 Albemarle St, London, W 1

Membership may be either technical (Students, Associates, Associate Members, Associate Fellows, Members, and Fellows) or non-technical (Companions) *Associate Fellowship* (A.F R Ae S) is reserved for those who have certain attainments in the science or practice or teaching of aeronautics or its allied sciences and have passed the Associate Fellowship Examination or an exempting examination, *Associate Membership* (A M I Ae E) is reserved for those who have certain attainments in the practice of aeronautics or its allied subjects or have passed the Associate Membership Examination or an exempting examination, *Membership* (M I Ae E) for those who have attained considerable eminence and are qualified as Associate Members, *Fellowship* (F R Ae S) for those who have attained to considerable eminence, and are qualified as Associate Fellows Annual subsn 1 g, 2 gs, 3 gs, and 4 gs, according to class Entrance for Associates and Companions, 1 g, for Associate Fellows and Associate Members, 2 gs, for Fellows and Members, 3 gs Library, including large recent acquisitions due to grant from Carnegie U K Trust, available to non-members through the medium of the Central Library for Students, 9 Galen Place, W C 1 Lectures, regularly in winter Publications *Journal* (monthly), *Transactions* (occasionally)

## INSTITUTION OF AUTOMOBILE ENGINEERS

Incorporated 1907 Address—Watergate House, York Buildings, Adelphi, W.C.2.

Qualifications for (1) Ordinary Membership (M I A E): minimum age, 25, having occupied during a sufficient period a responsible position in connexion with the practice, or otherwise proved thorough knowledge of theory and practice, of Automobile Engineering; (2) Associate Membership (A.M.I A E). min age, 23; having been trained as Engineer and subsequently employed for at least 2 yrs. in practice and science of A.E. and being actually so engaged, and having proved by examn. or otherwise thorough knowledge of the theory and practice of A.E. Persons suitably qualified may also join as graduates, students, associates, or affiliates. Annual subsn. 1 g. to 4 gs. according to class. Prizes up to £25 for Papers by Graduates.

## INSTITUTION OF CHEMICAL ENGINEERS

Incorporated Dec. 21, 1922. *Address*—Abbey House, Victoria Street, London, S.W.1.

*Membership* (M I Chem E) qualifications: minimum age, 32, and satisfactory evidence of good general and scientific education, training, and experience, or of eminence as a Chemical Engineer. *Associate Membership* (A M I Chem E) candidates not below the age of 25 who have had regular training and sufficient experience may qualify by passing a prescribed examn. Alternative qualifications are also provided for Subscriptions of "students," graduates, and corporate members range from  $\frac{1}{2}$  g. to 5 gs

## INSTITUTION OF GAS ENGINEERS

Founded 1863 Incorporated 1902 Royal Charter received 1908. *Address*—28 Grosvenor Gardens, Westminster, S W 1 Secretary Walter T Dunn, M I Mech E, F C I S *Telephone*—Victoria 0912 *Telegrams*—Gasophaner, London

In 1923 a scheme for awarding grouped course Certificates, Ordinary and Higher, for success in part-time day or evening courses, on lines similar to those for National Certificates in electrical and mechanical engineering (v. *supra*), was adopted with the approval of the Govt. education authorities of Great Britain and Ireland. Provision has also been made for granting *Diplomas* in Gas Engineering and in Gas Supply for success in examinations of the Institution of Gas Engineers. There are not at present any examns for admission to membership of the Institution

## THE INSTITUTE OF MARINE ENGINEERS, INCORPORATED

Established 1889 *Address*—85 The Minories, Tower Hill, London, E 1.

Membership or Associate-Membership open to Engineers holding First or Second Class Sea-going Certificates or those holding responsible or qualifying positions and engaged in the science or practice of Engineering or Shipbuilding, Associateship, to juniors so engaged and at least 21 years of age, Graduateship, to those receiving training in such science or practice who have completed one year of such training, Student Graduateship, to those who have attended Technical classes for a year, are training for such science or practice, and have passed the Institute's examn. The examn. (fee, 2s 6d.) is held in London and the provinces in April in the following subjects: Theoretical Mechanics, Heat and Heat Engines, Machine Constn. and Drawing, Applied



Mechanics, Maths., English, Elec. Engin. Entrance fee, 10s. to 30s. and annual subsn., 5s. to £1 : 11 : 6 according to grade of membership.

Library (over 3000 vols) and Reading Room. Lectures monthly (usually on 2nd Tuesday) during winter session. Gold Medal and other awards for Essay competitions

*Lloyd's Register Scholarships*: Three of £100 p.a. tenable for 3 yrs. in a University or College (day classes), open for competition, by examn, to British subjects, aged 18-23, who are Graduates or Associates of the Inst., apprentices or junior engineers, not necessarily connected with the Inst., who have served at least 2 yrs. in a commercial engineering workshop and until the time of application have been employed in engineering either ashore, afloat, or at College with a view to entering upon the business of Marine Engineering. The examn is held early in May each year in various centres to suit the residences of candidates in Great Britain.

## INSTITUTION OF NAVAL ARCHITECTS

Founded 1860 Incorporated by Royal Charter, 1910. *Address*—5 Adelphi Terrace, London, W C 2

Principal qualifications for Membership: minimum age, 30, having served apprenticeship in naval architecture or marine engineering and subsequently been engaged in such occupation and having held a post of primary responsibility for 7 yrs or more. Qualifications for Associate Membership are similar, but minimum age is 25 and post of primary responsibility need not have been held. Age-limit for Associates, 25, Students, 18-25. Entrance fee and annual subsn, 2 gs each, except for students, who pay subsn 15s. p.a. and no entrance fee. Distinctive letters, M I.N.A., etc.

*Scholarships* in naval architecture and marine engineering: number unspecified, varying in value from £75 to £150 p.a., offered for competition, open to students and apprentices in firms engaged in shipbuilding industry and Royal dockyards, two for post-graduate research in naval architecture (value £250 p.a. and £150 p.a. respectively) are awarded on recommendation of Univ. authorities.

Annual meetings, when papers are read and discussed. Summer meetings at shipbuilding centres at home or abroad.

Library, over 4000 vols, comprising principal works on shipbuilding, ancient and modern. *Transactions*, issued annually, constitute a permanent record for over 60 yrs. of all important developments in shipbuilding and marine engineering: £3 : 3s. for current volume (issued free to members), £3 : 3s. to 10s. 6d. for earlier numbers. Total membership about 2900, including many foreign naval architects of eminence.

## NORTH-EAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS

Founded 1884. Incorporated in 1914 under Companies Acts.  
*Address*—Bolbec Hall, Newcastle-on-Tyne.

Qualifications for Membership, Associate Membership, etc., are somewhat similar to those prescribed by the Institution of Naval Architects (v. *supra*) Distinctive letters, M.N.E.C.Inst., etc. All members are, by virtue of their membership, also members of the *Cleveland Scientific and Technical Institution, Middlesbrough*

A *Scholarship* in shipbuilding, marine, mechanical, or electrical engineering of the value of £100 is awarded annually upon the results of an examn. held in Sept.

Library containing over 5000 books on engineering and shipbuilding subjects. Reading Room receiving regularly 130 British, foreign, and colonial periodicals. *Transactions* issued in 8 Parts since 1884. Price of Parts, 5s. each. Annual volume, 25s. Papers published also in excerpt form, usually 5s. per copy, with discussion, correspondence, and author's reply.

## INSTITUTION OF ENGINEERS AND SHIPBUILDERS IN SCOTLAND

Founded 1857 Incorporated 1871 *Address*—Elmbank Crescent, Glasgow

Qualifications for Membership, Associateship, etc., are somewhat similar to those prescribed by the Institution of Naval Architects (v. *supra*) Distinctive letters, M.I.E.S., etc. The Institution reciprocates with the North-East Coast Institution in regard to the use of premises and attendance at meetings. It exchanges *Transactions* with 61 scientific societies and receives in exchange 74 periodicals

## INSTITUTION OF MUNICIPAL AND COUNTY ENGINEERS

Founded 1873. Incorporated 1890 *Address*—92 Victoria Street, London, S.W.1. A Constituent Institution of the Joint Engineering Council.

Qualifications for Membership (M Inst M. and Cy E): minimum age, 25; either holding a permanent chief appointment as an Engineer or Surveyor under a Municipal Corporation or other such Public Authority, or holding a permanent appointment as Deputy Engineer or Surveyor or the like and having passed the examn. of the Instn. or obtained equivalent Degree or Diploma, and in the case of deputies, etc., testimony of professional ability and experience justifying

election. Qualifications for Associate : Membership (A.M.Inst.M. and Cy.E.) ; minimum age, 22 , having undergone a recognized course of instruction as Civil Engineer and Surveyor and holding a position as Engineer Asst. or Resident Engineer or the like under a Public Authority ; and having passed the examn. of the Instn. or satisfied the Council that he has equivalent engineering qualifications. A candidate for election as student (age-limits 18 to 24) must be undergoing or have undergone a regular course of training as an articled pupil to, or hold an approved appointment with, an Engineer or Surveyor to a Public Authority.

Entrance fee for Member and Assoc Member,  $1\frac{1}{2}$  g , £1 : 5s ; subsn., 2 gs ,  $1\frac{1}{2}$  g. Student's subsn , 1 g

Examinations are held in April and Oct. Applications receivable up to Nov. 1 and May 1. Three certificates are awarded : (a) Testamur for general proficiency in work of a local govt engineer and surveyor ; (b) certificate in Town Planning , (c) certificate in County and Highway Engineering for specialized knowledge of road and bridge engineering and highway management and administration

Qualifications for admission to the examns : minimum age, 21 ; certificate of having passed the matricn examn of some University in the British Empire or an Examn of similar standard approved by the Council , fees—(a) 4 gs , (b) or (c)  $1\frac{1}{2}$  or 3 gs

Inquiries about examns in India and S Africa may be addressed to M. Lea, Chief Engineer, Municipal Office, Karachi, India, and H. M. Ladell, Town and Water Engineer, Wynberg, Cape Colony, respectively.

*Publications* : *Journal*, fortnightly, 2 gs. p a , *Town Planning Conference 1913*, 10s. 6d ; *Handbook* containing lists of Members, Regns., etc , 5s , and several others.

## INSTITUTION OF STRUCTURAL ENGINEERS

Founded 1908, and incorporated 1909 *Address*—10 Upper Belgrave Street, London, S W 1 *Telegrams*—Coninst, Sloane, London. Branches (7) : Lancashire and Cheshire, Western Counties, Yorkshire, Midland Counties, South-Western, Eastern, and Irish.

Admission to the class of Member is open only by examn., through the Graduate and Associate-Membership classes. Admission to Associateship is direct, but candidates must be Fellows either of the R.I.B.A. or Surveyors' Institution, or must be of equivalent professional standing. Distinctive initials of members, etc., M I Struct E., etc.

*Publications* : *The Structural Engineer*, monthly, 1s. 2d. post free ; *Yearbook*, 5s. 4d. post free ; numerous books and reports on technical subjects.

## X

## THE BAR IN ENGLAND AND WALES

THE right to practise as a Barrister in the Law Courts of England and Wales is restricted to those who have been called to the Bar by one of the Inns of Court—Lincoln's Inn, Middle Temple, Inner Temple, and Gray's Inn. The consolidated Regulations of these Societies (obtainable from the *Council of Legal Education*, 15 Old Square, Lincoln's Inn, London, W C 2) provide, *inter alia*, as follows: *Admission of Students*. The conditions include: (i) having passed any examn. held by any Univ. in the British Dominions or any of the States in India, approved by the Council of Legal Education, which entitles to a degree or, provided that one of the subjects in which the Student has passed is Latin, one of certain other examinations approved by the Council of Legal Education; (ii) satisfactory evidence of good character; (iii.) declaration that the candidate will not "directly or indirectly apply for or take out any certificate to practise, directly or indirectly, as a Pleader or Conveyancer or Draftsman in Equity, without the special permission of the Masters of the Bench," and is not and does not "directly or indirectly act in the capacity of a Solicitor, Attorney-at-Law . . . Professional Accountant, Actuary, Land-Agent, Surveyor . . ." or "in any capacity similar to any of those . . . otherwise than as . . ." The Schedule of approved Prelim. examns. includes those of the standing of Oxford Responsions, Cambridge Previous, and London Matriculation. The Council may add others, and the Masters of the Bench of the Inn of Court concerned may, in special cases, relax or dispense with this requirement.

*Keeping Terms* This is done by eating dinners 6 days in each of 12 terms (members of Univs. of the U.K. 3 days). There are 4 terms in each year.

*Education and Examination* Systematic instruction is provided under the supervision and direction of the Council of Legal Education in Roman, International, Constitutional, and English Law, Jurisprudence, Legal History, and Equity. Reading in the chambers of a Barrister or Pleader for the purpose of studying the practice of Law is recommended, but not compulsory. Three examns. for Call to the Bar are held each year. Candidates must satisfy the examiners in each of the sections: (1) Roman Law, (2) Constitutional Law (English and Colonial) and Legal History, (3) Criminal Law, (4) Real Property and Conveyancing *or* Hindu and Mohammedan Law *or* Roman-Dutch Law, (5) Common Law, (6) Equity, (7) Law of Evidence and Civil Procedure, (8) General Paper on 5, 6, and 7. A student who has passed an examination in Roman Law, forming part of a qualifying examination for a Univ. degree, may be excused the examination in Section 1. Sections 1 to 4 (constituting Part I.) may be taken separately (fee,  $\frac{1}{2}$  g each); 5 to 8 (the Final examination) must be taken together (fee, 2 gs.)

after having passed 1 to 4 and, ordinarily, after having kept at least 6 terms.

The successful students are classified and the names of those in Classes I. and II. of the Final Examination Pass List are arranged in order of merit. A Certificate of Honour is granted to those in Class I. at the Final examination. Prizes of £50 each may be awarded for the best students (not over 25 yrs. of age) in Sections (2) and (3), and a Studentship of 100 gs. p.a. tenable for 3 yrs. to the best student (not over 25 yrs. of age) at the Final examination. The Inn to which a student who has obtained a Studentship or Certificate of Honour belongs may, if desired, dispense with any Terms, not exceeding 2, that may remain to be kept by him.

*Calls to the Bar.* Minimum age, 21. In special circumstances the Masters of the Bench may dispense with the keeping of not more than 2 of the 12 terms ordinarily required to be kept by a student before he is called, and special concessions in regard to the keeping of terms or examinations, etc., are allowed to Scottish Advocates, Irish Barristers, members of the Bar of New South Wales, Ceylon, the Cape Province of South Africa, New Zealand, Vakils who have been on the Roll of Vakils of a High Court in India for not less than 3 years, certain Civil Servants exercising judicial functions abroad, and to persons who, prior to admission as students, have practised as Solicitors for 5 yrs subsequent to admission as a solicitor *in England*

*Fees* On admission application, 1 g., stamp duty, £25; lecture fee, 12 gs., admission fees, £20 or £21. On Call. stamp duty, £50; composition for annual dues, £12, call fees, £38 (Gray's), £40 (Lincoln's), £50 (Middle or Inner).

## SOLICITORS IN ENGLAND AND WALES

Examinations are held by the LAW SOCIETY, Chancery Lane, London, W.C.2. All persons, except some Colonial Solicitors, are subject to Final examination at conclusion of service under Articles before they can be admitted as Solicitors. Subjects of Foreign States cannot be admitted. English Barristers of 5 yrs.' standing are not required to enter into Articles, but may be admitted after passing the Final examn. Before entering into Articles of Clerkship (under the Solrs. Act, 1877) with a view to admission as Solicitors it is necessary, except for persons exempted, to pass a *Preliminary examn.* (fee, £4) held in London and several provincial towns in Feb., July, and Oct., in English, Elem. Maths, Geog. of Europe, and Hist. of England, Latin, and one or (if Algebra and Elem. Geom. are not taken) two of the following—Latin translation, Greek, French, German, Spanish, Italian. Exemption is allowed to graduates in Arts or Laws and persons who have passed matricn or other corresponding examns. of any Univ. of Great Britain or Ireland or examns. exempting therefrom, to Utter Barristers in England, and to persons who have passed Oxford Responsions or Cambridge Previous Examn. or any examn. exempting therefrom, or, subject to provisos, approved School Certificate or Higher Certificate examns., or certain other examns.

*Service under Articles* (stamp duty, £80) is normally for 5 yrs. This may be reduced to 3 yrs. for graduates in Arts or Laws or Science of any Univ. of the U.K., English Barristers, of less than 5 yrs.' standing, or for members of the Faculty of Advocates, Writers to the Signet and Solrs. in the Supreme Courts of Scotland, or Procurators before any of the Sheriff Courts of Scotland.

An *Intermediate* examn. (fee, £6), which may be taken after completing 12 months' service, is held in March, June, and Nov. Exemption from the Legal portion (but not from the Trust Accounts and Book-keeping portion) is given to those who (1) before or after entering into Articles have passed the examn for the B.C.L. or LL.B. at any of the Univs. of England (except Bristol) and Wales or at the Univ. of Dublin; or (2) before entering into Articles have taken Honours in the Final Honour School of Jurispr. at Oxford or in the Law Tripos at Cambridge. Exemption from the whole of this examn in consideration of circumstances connected with the war is obtainable under certain conditions (v. sec. 2 of Solrs. Act, 1918).

The *Final* examn. (fee, 10 gs.) is held in March, June, and Nov. Prints of the Questions set at this and at the Interm. are obtainable from the Law Society.

THE SOLICITORS ACT, 1922. Section 2 provides that a person articled to a solicitor after Dec. 31, 1922, shall not be admitted to the Final Examn. unless he satisfies the Law Society that he has, during a period of one year, complied with the requirements of the Society as to attendance at a Law School provided or approved by the Society. This does not apply to any person who (1) has taken a degree at any Univ. in the U.K., after passing a Final Examn. in law at such Univ.; or (2) applies to be admitted to the Law Society's Final Examn. after satisfying the requirements of Sect. 4 of the Solrs. Act, 1860. Any person may be wholly or partially exempted from attendance at a Law School if he can satisfy the Law Society that such attendance is for geographical or other reasons impracticable.

*Provided and Approved Schools.* The Society's Law School in London, the Univs. of Birmingham (in conjunction with the Birmingham Board of Legal Studies), Bristol, Cambridge, Durham (Armstrong College), Leeds, Liverpool (in conjunction with the Liverpool Board of Legal Studies), London, Manchester, Oxford, Sheffield, Wales (Univ. Colleges, Aberystwyth, Bangor, Cardiff, Swansea), Univ. College, Exeter, Univ. College, Southampton, East Midland Law School (Univ. Colleges of Nottingham and Leicester).

# XI

## MEDICAL AND DENTAL QUALIFICATIONS AND STUDIES

### A. MEDICAL QUALIFICATIONS

*Address* of the Registrar, General Medical Council—44 Hallam St., Portland Place, London, W.1. *Telegrams*—Genmedicum, Eusroad, London. *Telephone*—Langham 2500. *Addresses of Registrars of Branch Councils*—12 Queen St, Edinburgh, 35 Dawson St, Dublin.

No person is recognized by law as a duly qualified Medical Practitioner in Great Britain or Ireland whose qualification is not *registered* in the books of the *General Medical Council*. Below are lists of the qualifications so registrable—obtainable (a) in Great Britain and Ireland, (b) in British Possessions overseas, (c) in foreign countries. The document presented in evidence of any of these must show that the possessor has passed a Qualifying examn. in Medicine, Surgery, and Midwifery. For registration in the Colonial or Foreign list it is essential that the qualification be first registered in the Province, State, etc., in which it was obtained.

*Position of Doctors with Irish Qualifications.* Persons who obtain recognized qualifications in the Irish Free State can register there, and should do so if they desire to practise in that State. They are also entitled to registration on the Medical Register if they desire to practise elsewhere than in the Free State

#### (a)

Royal College of Physicians, London—F, M., L., R C.P. Lond  
 Royal College of Surgeons of England—F, M, R.C.S Eng.  
 Royal College of Physicians of Edinburgh—F, M, L, R C P Edin.  
 Royal College of Surgeons of Edinburgh—F., L, R C.S Edin.  
 Royal Faculty of Physicians and Surgeons of Glasgow—F, L, R.F.P.S.  
 Glasg  
 Royal College of Physicians of Ireland—F, M., L., L M, R C P. Irel.  
 Royal College of Surgeons in Ireland—F., L, L M, R.C.S. Irel.  
 Apothecaries' Soc of London—L M S S.A. Lond  
 Apothecaries' Hall, Dublin—L A H. Dub.  
 Each Univ. in Great Britain or Ireland—M D (Ox, D.M.), M.B. (Ox., B.M), Ch B or B.Ch or B.S. (Camb. B Chir.), Ch.M. or M Ch. or M S. or C.M. (Camb. M.Chir.) ; Dub. : L.Med., L.S.  
 Registrable Diplomas or Certificates for proficiency in Sanitary Science, Public Health, or State Medicine which may be added to qualifications already registered but do not admit primarily to the Register : D.P.H. (R.C P S. Engl., R C.P.S. Edin., and R.F P.S. Glas., R.C.P.S. Irel., and each of the Univs. of Great Britain and Ireland, except London).

B.Sc. (P.H.) Birm.

B.Hy., D.Hy. Durh.

M.D. (S.M.) Lond.

M.H. L'pool.

B.Sc. (P.H.), D.Sc. (P.H.) Edin., B.Sc. (P.H.), D.Sc. (P.H.) Glas.

Under the Public Health Acts no appointment as Med Officer of Health may be made in any county, district, or combination of districts of a population of 50,000 or upwards unless he is registered as the holder of a Diploma in San. Sc.

New Rules for obtaining qualifications in Public Health were adopted on May 22, 1922, and came into operation as from Jan. 1, 1924. They revise the curriculum and extend the period between the obtaining of an original qualification and a Diploma to not less than 2 years.

(b)

*Australia.* M.B., M.D. Syd., Adel, or Melb.; Ch.M. Syd.; B.S., M S Adel; B.S. Melb.

*Canada.* M.D. Dal.; C.M. Dal., L M S. Nova Scotia Provl. Med. Board, or Prince Edward Island Med Council

M.C.P. & S. Alta., or Manit

As qualifications which may be added to M.C.P. & S. Manit.—M D, C M. Manit.

*Ceylon* L M S Ceylon Med Coll

*Hong-Kong.* M B, B.S., M.D., M S Hong-Kong.

*India.* M.B., B.S. All.

L M S., M B., B S., M D, M S. Bom.

L.M.S., M B, M D, M.S, M O Calc. (if dated prior to Nov. 30, 1924)

M.B., C.M., M.B, B.S, M D. Mad.

L.M.S., M B., M D, M.S. Panj.

M B, B S. Lucknow

*Malta* M.D Malta.

*Newfoundland.* L.M.S. Nfld. Med. Board

*New Zealand.* M B., Ch.B., M D. N.Z

*South Africa*

M B, Ch B. Cape Town

M.B, Ch B S Africa

M B, B Ch U. Witwatersrand

*Strait Settlements.* L M.S. Singapore Med. Coll

(c)

Degrees of (i.) Doctor of Med and Surg. of all the Royal Italian Univs., (ii) Bachelor of Med. and Doctor of Med. of the Imperial Univs. of Japan; and Bachelor of Med. of any Govt. or Prefectural Special Med. Coll or of a private special Med. Coll. designated by a Minister of Educn. of the Empire of Japan.

## B. REGISTRATION OF MEDICAL STUDENTS

The Regulations (including the modifications which came into force on Jan. 1, 1923), obtainable from the Registrar, 44 Hallam St.,



London, W.1, post free 1s, prescribe Registration of Medical Students within 15 days of the commencement of their professional studies. For this purpose they should apply in the prescribed form, obtainable from any of the Registrars (v. *supra*), submitting evidence of having— (a) attained the age of 17, (b) passed a Preliminary examn. in General Education recognized by the Council; (c) passed also an examn. in *Elementary Physics* and *Elementary Chemistry* conducted or recognized by one of the Licensing Bodies, (d) commenced Medical study at an approved Univ. or Medical School

As regards (b) the Council recognizes no examn. which is of standard lower than that of Univ. Matricn. examns. in the faculties of Arts and Pure Science, and requires that the examn. certificate shall bear evidence that the candidate has passed in English, Elem. Maths., a language other than English, and an additional subject or subjects as required by the regulations of the particular examn., to be chosen from the subjoined list, viz. Hist., Geog., Physical Sc., Nat. Sc., Latin, Greek, Hebrew, French, German, or other language accepted by the Univ. for the purpose. Applicants from one of the recognized Colonial Univs. must produce evidence that they have passed the complete Matricn. examn. for the faculty of Arts or of Science (Pure) of the Univ. or College from which they come, or an examn. accepted as equivalent thereto, and that the examn. passed is accepted by one of the Univs. of Great Britain or Ireland for similar purposes. Applicants from one of the recognized Indian Univs. must produce evidence that they have passed the Matricn. examn. of the Univ. from which they come, or an examn. recognized as equivalent thereto, and, in addition, the Preliminary Scientific or Intermediate examn. in Arts or Science of their own Univ. Applicants from Foreign Univs. should submit their credentials to the Registrar.

As regards (c), this requirement is not dispensed with in cases where *Physics* and *Chemistry* of a Matricn. standard formed part of the (b) examn., but an applicant from one of the recognized Colonial Univs. or Colleges is permitted to substitute for it a certificate that an examn. in Physics and Chem. (and, in addition, *Biology*, v. *infra*) equivalent in standard to the First Professional examn. in these subjects has been passed by the student. Similarly, in the case of an applicant from one of the recognized Indian Univs. the Preliminary Scientific or Intermediate examn. in Arts or Science of his own Univ. will suffice if these subjects are included in his Pass certificate.

As regards (d), institutions in which Medical Study may be commenced include all the Univs. and other Bodies throughout the Empire of which the *qualifications* (v. *supra*) have been recognized as entitling to registration in the U.K.

A student who has diligently attended an approved course of instruction in *Elementary Biology* at a Secondary school or other teaching institution recognized by a Licensing Body may be admitted to the Professional examn. in this subject immediately after his registration as a student.

## C. DENTAL QUALIFICATIONS

Under the Dentists Act, 1921, no person who is unregistered can practise dentistry without rendering himself liable to prosecution.

The Dental Board of the United Kingdom was constituted by the Dentists Act, 1921, and is charged with the duty of dental registration. The address of the Registrar is 44 Hallam St., London, W.1. *Telegrams*—Dentiboard, Eusroad, London. *Telephone*—Langham 2501.

The following lists show the registrable qualifications obtainable (a) in Great Britain and Ireland, (b) in British Possessions overseas.

## (a)

Royal College of Surgeons of England—L.D.S., R.C.S. Eng

Royal College of Surgeons of Edinburgh—H.D.D., L.D.S., R.C.S. Edin

Royal Faculty of Physicians and Surgeons of Glasgow—H.D.D., L.D.S., R.F.P.S. Glas

Royal College of Surgeons in Ireland—L.D.S., R.C.S. Irel.

Univ. of Birmingham—M.D.S., B.D.S., L.D.S. U. Birm

Univ. of Bristol—M.D.S., B.D.S., L.D.S. U. Brist.

Univ. of Durham—L.D.S. U. Durh

Univ. of Leeds—M.Ch.D., B.Ch.D., L.D.S. U. Leeds

Univ. of Liverpool—M.D.S., B.D.S., L.D.S. U. L'pool

Univ. of London—B.D.S., M.S. (Dent.) U. Lond

Victoria University of Manchester—M.D.S., B.D.S., L.D.S. V.U. Manc.

Univ. of Sheffield—M.D.S., B.D.S., L.D.S. U. Sheff.

Univ. of St. Andrews—L.D.S. U. St. And

Univ. of Dublin—M.D.Sc., B.D.Sc., L.D.Sc. U. Dubl

National Univ. of Ireland—M.D.S., B.D.S. N.U. Irel

Queen's Univ. of Belfast—M.D.S., B.D.S., L.D.S. Q.U. Belf.

## (b)

Victoria, Australia—L.D.S. Vict.

Univ. of New Zealand—B.D.S. U. N. Zealand.

Univ. of Sydney—B.D.S. U. Sydney.

Univ. of Melbourne—B.D.Sc., D.D.Sc. U. Melb.

## D. REGISTRATION OF DENTAL STUDENTS

I. Registration is carried on at the Council Office in London in the same manner as that of Med. students, and is subject to the same regns. as regards age and Prelim. exams, but professional study may commence by pupilage with a Registered Dental Practitioner.

II. Candidates for a Diploma in Dental Surgery should produce certificates of having been engaged in professional studies for at least 4 years, including 3 years at least at a Dental school or schools recognized for professional study by one of the Licensing Bodies, and of having received for not less than 24 calendar months, or for 2000 hours, practical instruction in Dental Mechanics.

III. Two years' *bona-fide* apprenticeship with a Registered Dental Practitioner, after being registered as a Dental student, may be counted as 1 of the 4 yrs of professional study.

IV. The necessary instruction in Dental Mechanics, or any part of it, may be taken by the Dental student either before or after his registration as a student. When he can show evidence of regular pupilage in Dental Mechanics to a Registered Practitioner, prior to passing the prescribed Preliminary and Scientific examns., he may be allowed to antedate for a period not exceeding 1 yr. prior to the passing of these examns

V. It is recommended that instruction in Dental Mechanics be taken at a recognized Dental Hospital or School. If any part of such instruction be taken by the candidate as a pupil with a Registered Dental Practitioner, the time required to be devoted to it will be at least twice the time required for the corresponding instruction taken at a Dental School

*Schools at which Dental Study may be commenced.* Birmingham D Hospl; Bristol, Royal Infirmary, Genl Hospl.; Dublin, D. Hospl of Ireland; Dundee D Hospl; Edinburgh D Hospl; Glasgow D. Hospl., Leeds D. Hospl., Liverpool D. Hospl.; London, Guy's Hospl. D. School, London Hospl. D School, Univ. Coll. Hospl D. School, Royal D Hospl.; Manchester D Hospl., Newcastle-upon-Tyne D. Hospl, Sheffield Royal Hospl.; Roy. Coll of Surg in Ireland, D. Department of any Univ. of the U K.

## E. RECIPROCAL RECOGNITION

The States, Presidencies, and Provinces in which the registrable medical qualifications specified under A (b), (c) are granted, all allow practitioners with qualifications registered in the U K to register without further examn. There are also other Colonies, *e g* Tasmania, which recognize British qualifications, but in which at present no qualifications are granted

[A Report (5th edition pubd in Jan. 1921) as to the conditions under which Med. and Dent practitioners registered or legally qualified in their own country may practise abroad is obtainable from the Council Office, price 2s 6d. (post free U.K. 2s. 10d., elsewhere in the Empire 3s. 1d., outside 3s. 4d.). It contains, among other matters, the designations and addresses of the persons to whom application should be made for forms and further information]

## F. POST-GRADUATION MEDICAL STUDIES

In London, in addition to the General Hospital Medical Schools which provide to a limited extent for qualified practitioners, there are the West London Post-graduate College at the West London Hospital, Hammersmith, with a staff of 37 regular lectrs. and demrs, the North-East London Post-Graduate College at the Prince of Wales' Hospital, Tottenham, and the London School of Clinical Medicine at the Seamen's Hospital, Greenwich, as well as certain special hospitals where excellent

arrangements are made for post-graduate work in particular subjects. The *Fellowship of Medicine* (1 Wimpole St., London, W 1), formed in 1918, promotes and advertises the provision of facilities for post-graduation medical study in London. In co-operation with 50 London general and special hospitals, post-graduate courses in all the special departments of medical science are arranged, as well as short intensive courses at regular intervals during the year. Information is given on post-graduation study in Great Britain and elsewhere. Regarding facilities for special research, v. *infra*

Post-graduate courses are also provided elsewhere, notably at Manchester, Edinburgh, and Glasgow.

## ROYAL COLLEGE OF PHYSICIANS OF LONDON AND ROYAL COLLEGE OF SURGEONS OF ENGLAND

*Address of the Secy., Examining Board in England, 8-11 Queen Sq., London, W C 1.* Applications for admission to the Board's examns should reach the Secy at least 14 days (in the case of the L D.S. Professional examns., 21 days) beforehand. Agency for the sale of Books of Questions set in past years (9d each)—Taylor & Francis, Red Lion Court, Fleet St., London, E C 4

Examinations for the Diplomas of LICENCE OF THE R C P. of London and MEMBER OF THE R C S of England (L R C P., M R C S) are held ordinarily in Jan., April, July, and Oct. Candidates must have passed a Prelim examn in general education recognized by the Board, and must have passed, before commencing the 5 years' curriculum of professional study, a *Pre-Medical examn in Chemistry and Physics* conducted or recognized by the Board. Before admission to the Professional examns. (known as the *First* and *Final*) they are required to produce certificates of having pursued the prescribed courses of study and practice. The *First* Professional examn. (fee, 10 gs) comprises: Section I., (a) Anatomy, including Histology and Embryology, (b) Physiology, including Bio-Chemistry, Section II., Pharmacology, Practical Pharmacy, and Materia Medica. A candidate who has passed an examn. in the subjects of Section I. or of either part of Section I. and of Section II. in the examn. for the degree in Medicine conducted at a Univ. recognized by the Board, will be exempted from further examn. in such subject or subjects. The subjects of the *Final* Professional Examn. are: Section I. (fee, 4 gs.), (a) Pathology, including Morbid Anatomy, Morbid Histology, Clinical Path., and Bacteriology; Section II.—Part I. (fee, 10 gs.), Medicine, including Med. Anatomy, Forensic Med., and Public Health, Part II. (fee, 10 gs.), Surgery, including Surg. Anatomy and the use of Surg. Appliances, Part III. (fee, 6 gs.), Midwifery and Gynæcology. A candidate who has passed an examn. for a degree in medicine in the subjects of Pathology and Bacteriology at a Univ. recognized by the Board is exempted from Section I.

Students of recognized Univs. in England, Scotland, and Ireland, who have passed examns. for a degree in Medicine at their Univs. in the

subjects of the First Professional Examn., may enter for the Final at the expiration of three years from the date of passing in Anatomy and Physiology on production of the required certificates.

Members of certain recognized Indian, Colonial, and Foreign Univs., who have passed examns. for the Degree of Doctor or Bachelor of Medicine or Surgery in the subjects of the First Professional Examn., may present themselves for the Final under special conditions. A holder of the diploma of the National Board of Examiners of the U.S.A. can enter for the Final on producing the required certificates of 5 years' study from one of the Univs. recognized by the Conjoint Board. The Board also grants Diplomas in Public Health, in Psychological Medicine, in Ophthalmic Medicine and Surgery, in Tropical Medicine and Hygiene, and in Laryngology and Otology. Candidates must hold a Medical qualification registrable in the U.K., or be Graduates in Medicine of a recognized Indian, a Colonial, or a Foreign Univ.

The regulations affecting candidates who were registered as medical students before Jan 1, 1924, are given in the 1923 and previous editions of this *Yearbook*.

For admission to the MEMBERSHIP OF THE R C P (*fee*, 40 gs, *less* Licence fee, if any, already paid) the minimum age is 23, and a candidate must satisfy the Censors' Board as to his moral character and conduct and pass an examn of such nature and extent as may be determined by the Board. If he has not passed the examns required for the licence, he must have obtained at any University a degree of Doctor or Bachelor of Medicine which is registrable by the General Medical Council of the United Kingdom. A candidate who has attained the age of 30, and can produce testimonials sufficient to satisfy the Board, will be permitted to submit published work done by himself in any branch of Medical Science or in General Literature, and may be excused a part or whole of the Examination.

FELLOWS are elected annually from the ranks of the Members of at least 4 yrs' standing. (For particulars of the Membership of the R.C.P. application must be made direct to the Secretary, Pall Mall East, London, S.W 1.)

Examns for the FELLOWSHIP OF THE R C S are held twice yearly—the 1st Prof. in June and Dec, and the 2nd Prof. in May and Nov. Fees, first examn, 8 gs, 2nd, 12 gs, admission to Fellowship (minimum age, 25), 10 gs, for those who are M R C S Eng. and 30 gs for those who are not M R C S. The *First* examn (in Anat. and Physiol.) is open to M R C S Eng., and, on production of certain certificates involving work extending over 6 terms or 18 months, to (a) candidates who have passed the First examn, Pt I, for the L R C P. Lond. and M R C S Eng., and (b) members of Univs. recognized under the Regns. of the Board. The *Second* examn. (in Surgery, including Surg., Anat., and Path.) is open, provided they have passed the First, to (a) M.R.C.S. Eng. who have been engaged not less than 6 yrs. in the study or study and practice of the profession, and (b) persons possessing the registrable Surg. and Med. degrees of the under-mentioned Univs., who have been engaged after obtaining such degrees in the study or study and practice of the pro-

fession for 4 yrs., including 1 yr. spent in attendance upon the Surg. Practice of a recognized Hospl. or Infirmary : the Univs. of the U.K., Dalhousie, Laval, McGill, Manitoba, Montreal, Queen's (Kingston), Toronto, Western (Ont.), Adelaide, Melbourne, Sydney, N Z, Bombay, Calcutta, Lucknow, Madras, Panjab, Allahabad, Hong-Kong, Malta, Cape Town, South Africa, Witwatersrand, Italian Royal Univs and Imperial Univ of Japan.

All the above examns. are open to WOMEN, who are also eligible, subject to the provisions of the Medical Act, 1876, and Bye-laws of the Colleges, for the Diplomas of L R C P, M R C S., and F R C S. (For particulars concerning the Fellowship of the R C S apply to Secretary, Examining Board in England, 8/11 Queen Square, London, W C.1)

### ROYAL COLLEGE OF PHYSICIANS OF EDINBURGH, ROYAL COLLEGE OF SURGEONS OF EDINBURGH, AND ROYAL FACULTY OF PHYSICIANS AND SUR- GEONS OF GLASGOW

Joint examinations, open alike to men and women, are held in Edinburgh (usually in October, January, and July) and in Glasgow (usually in March-April) for the DIPLOMAS IN MEDICINE, SURGERY, AND MIDWIFERY of these three bodies. Applications for admission should reach the Inspector—in Edinburgh, D. L. Eadie, 49 Lauriston Place ; in Glasgow, W. Hurst, 242 St Vincent St—at least one week before.

Examns for the DIPLOMA IN PUBLIC HEALTH (fee, 12 gs., or for each Part, 6 gs) are held early in Oct in Edinburgh and early in May in Glasgow.

The R C P. Edin. may admit to examn. for its single qualification—LICENCE—any candidate who has a Surg. qualification recognized for the purpose. Fee, 15 gs. Examns held every month, except Sept and Oct. Admission to MEMBERSHIP (minimum age, 24) is by election. Candidates must hold a Licence of a British or Irish College of Physicians or Degree in Med. of a Univ. approved by the Council, and pass the prescribed examn. unless exempted by the Council from the whole or part of it in consideration of work in any sphere of Med. adjudged to be of high distinction. Fee, 35 gs., or, if a L R C P Edin., 20 gs. A member of 3 yrs.' standing may be elected FELLOW. Fee, 38 gs., and stamp duty, 25 gs. The College has a Library of 100,000 vols. and Research Laboratory.

For admission to the FELLOWSHIP OF THE R C S Edin candidates must pass an examn. (fee, £45, or for L R C S Edin, £35) in : (a) Principles and Practice of Surgery, including Surg. Anat. ; (b) Clinical S ; (c) one of the following—including clinical or practical as well as written and oral tests—S. Path. and Operative S. ; Ophth. S. ; Aural, Nasal, and Laryng. S. ; Obst. S. ; Gyn. ; Adv. Anat. ; Dental S. Qualifications for admission to the examn. (which is now open to women). minimum age, 25 yrs ; 2 yrs' study and practice of the profession after obtaining one of the following, or other approved qualifications

in S. : those of R.C.S. Eng., R.C.S.I., R.F.P.S. Glas. ; Surgical degrees of the Univs. of the U.K. and Canada, Adelaide, Melb., Syd., N.Z., Bom., Calc., Mad., Panj. ; L.M.S.S.A. Lond., and L.A.H. Dub. registered under the Med. Act, 1886, and such foreign qualifications as may be approved by the President's Council.

Candidates are not allowed to appear more than three times at the examinations

At the final consideration of the candidate's petition for admission to the Fellowship election is determined by ballot.

Examns. for the LICENCE OF THE R.F.P.S. Glasgow can be arranged at any time of the year, except August. Fee, 15 gs Qualifications for admission. Licence of one of the Colleges of Physicians of the U.K. or Colonies, or of the Soc. of Apothecaries of London or Apothecaries' Hall, Dublin, conferred after passing the qualifying examns. of these bodies ; Degree in Med. of a Univ. of the British Empire.

Examns. for the FELLOWSHIP OF THE R.F.P.S Glasgow are held in Jan, April, July, and Oct. 14 days' notice required Admission to the Fellowship (fee, £50, or for L R.F.P.S., £40) is either by examn and subsequent election by ballot or by election in virtue of high distinction in Med. Science or Practice of persons not less than 40 yrs of age who have been qualified for at least 10 yrs. Not more than 4 Practitioners are admitted by the latter method annually. Candidates must be proposed by 2 Fellows of the Faculty.

All examns of the R F.P.S are open to women as well as to men.

## ROYAL COLLEGE OF PHYSICIANS AND ROYAL COLLEGE OF SURGEONS IN IRELAND

*Address* of Committee of Management of the Conjoint Board—Royal College of Surgeons, Stephen's Green, Dublin. Registrar of the R C.P.—6 Kildare St., Dublin.

Professional examns. for the LICENCES IN MEDICINE, SURGERY, AND MIDWIFERY are held by the Conjoint Board in spring, summer, and autumn. Candidates must comply with the requirements of the Gen. Med. Council (*v. supra*) *re* Prelim. examn and Registration of students. The First Professional Examn (fee, 25 gs) comprises Anatomy, Physiology, and Histology. The *Second* (fee, 10 gs) : Pathology, Materia Medica and Pharmacy, Therapeutics, Forensic Medicine and Public Health The *Final* (fee, 6 gs) : Medicine, including fevers, Mental Diseases and Diseases of Children ; Surgery, including Operative and Ophthalmic, Midwifery and Gynæcology, Vaccination, and Diseases of New-born Children.

Institutions recognized for instruction in subjects of the First examn. include numerous schools in the U.K., and also the Univ. of Cape Town and the Witwatersrand Univ., Johannesburg. Institutions recognized for certification of studies include : in Canada—the Univs. of Dalhousie, Laval, McGill, Toronto, Trinity Coll and Vict. Coll., Tor. ; Bishops' Coll., Montreal ; R.C.P.S, Kingston ; Trinity Med. Sch. ; in Australia

—Univs. of Melb and Syd., Adelaide Infirmary, Melb. Hospl., Alfred Hospl., Syd. Infirmary, Prince Alfred Hospl., Genl Hospls. of Hobart and Launceston; in N.Z.—Dunedin Hospl.; in Cape Town—S. African Coll.; in India—Med. Colls. of Bengal and Madras; the Ceylon Med Coll.

Candidates who have passed in any of the required subjects at examns. conducted by any Licensing Body recognized by the R.C.P and R.C.S. may be exempted from further examn therein.

Examns. for the LICENCES OF THE R C P.I are held early in Feb., May, and Nov., and at specially appointed times. That for the *Licence in Medicine* (fee, 15 gs, or for Special examn, 20 gs) comprises Practice of M, Clinical M., Path, Med Jurispr, Midw., Hygiene, Therap. It is open to a Registered Med. Practitioner of the U.K. or on the Colonial or Foreign List of the Gen Med. Council if the College be satisfied as to his character and his courses of study and examns. passed by him. The examn. for the *Licence in Midwifery* (fee, 8 gs, special, 12 gs) is open to Registered Med. Practitioners: (a) of the U.K. who have (1) obtained the Lic in Med of the College or have passed the examn therefor, or (11) satisfied the College as to character and as to course of study pursued and examns passed, (b) of 5 yrs.' standing who have so satisfied the College. Entrants under (b) are exempt from the examn. by printed questions. Applications for particulars should be forwarded to the Registrar, Royal College of Physicians of Ireland, 6 Kildare Street, Dublin.

Examns. for MEMBERSHIP OF THE R C P.I are held in Feb, June, and Nov, and at specially appointed times. Applications for admission should reach the Registrar by 2nd week in Dec, Apr, and Sept. Fee, 35 gs, or for L R.C P I, 20 gs; extra for Special examn, 10 gs. The examn is open to Registered Med. Practitioners. (a) who have held for at least a year a Licence in Med of a College of Physicians of the U K, or a degree (B. or D) of any Univ. in the Empire recognized for registration purposes by the Gen. Med Council; or (b) who hold a foreign qualification, entitling to practise Med and Surg. in their own countries, obtained after a course of study deemed by the College to be satisfactory. The testimony of a fellow or member of the College or a F R C P. Lond. or Edin as to professional conduct and moral character is also required. The Diploma of membership carries with it the Licence if this has not been already obtained. Exemption from part of the examn may be allowed by the Court of Examiners on a consideration of evidence that a candidate has "improved the Art or extended the Science of Medicine"

For admission to the FELLOWSHIP OF THE R.C P I. (fee, £35, stamp duty, £25) the candidate must have been a member of the College for 1 yr. Minimum age, 27. It is open to women.

The R.C.S.I holds examns. (fee, 5 gs) for a LICENCE IN SURGERY at the same times as those of the Conjoint Board. They are open at the discretion of the Council to Registered Med. Practitioners who have passed through a course of study and examns. equivalent to those required by the Conjoint Board and an examn. in Arts recognized by the Gen. Med Council. Fee for Licence, 25 gs, including 5 gs. examn. fee.



The R.C.S.I. also holds examns. for a DIPLOMA IN MIDWIFERY. Candidates must have a registrable qualification and produce certificates of attendance at Lectures, 6 months' Hospital practice and conduct of 30 labour cases. Fee, 15 gs.

The examn. for the FELLOWSHIP OF THE R.C.S.I. is in 2 parts. Fee for each, 5 gs. For admission to the Final part a candidate must be a Licentiate or Graduate in Surg. of a Univ. or licensing body recognized by the Gen. Med. Council. Minimum age, 25. Fee on admission to Fellowship, 40 gs., or for Licentiate of the College, 25 gs.

## THE SOCIETY OF APOTHECARIES OF LONDON

Incorporated by Royal Charter, 1617. *Address*—Water Lane, Queen Victoria St., London, E.C. 4.

Examinations for the Diploma of Licentiate in Medicine, Surgery, and Midwifery (L.M.S.S.A.) are held in London, the Pre-Medical Examn. in Chem. and Physics and the Primary examn. (fee, 5 gs.) in *Materia Medica* and Pharmacy, Anatomy, Physiology, and Histology in Jan., April, July, and Oct., the Final (fee, 15 gs.), monthly, except in Sept. For admission to either, certificates are required, showing in detail the course of Medical study pursued by the candidate with particulars of instruction received, practice and operations performed, and offices held. The course covers 5 yrs. from the date of registration as a medical student. Exemption from the Primary subjects may be obtained by proving that equivalent examns. recognized by the Society have been passed.

## THE ROYAL COLLEGE OF VETERINARY SURGEONS

*Address*—10 Red Lion Sq., London, W.C. 1. *Affiliated Colleges*—Royal V. College, Camden Town, London, N.W. 1; The V. School of the University, Liverpool; Royal (Dick) V. College, Summerhall, Edinburgh; The V. College, Buccleuch St., Glasgow; The V. College of Ireland, Ballsbridge, Dublin.

A candidate for the *Membership* must, after passing one out of a list (similar to that of the Gen. Med. Council, v. *supra*) of recognized Preliminary Educational examns., attend courses in one of the Affiliated Colleges during 4 yrs. as follows: 1st year (from which exemption is given under certain conditions to graduates in Arts, Science, or Medicine): Anat. of Domestic Animals; Chem. and Elem. Physics; Biol., Elem. Zool., and Botany. 2nd year. Anat. of Dom. Animals; Physiol. and Histol.; Stable Management, Shoeing, etc. 3rd year: Path., Bact., and Protozoology; Mat. Med., Tox., and Practical Pharmacy; V. Hygiene and Dietetics. 4th year: Principles and Practice of V. Med. and V. Surg. and Obst.; Meat Inspection. An examn. (fee, £5) is held at the end of each year's course.

Qualifications for *Fellowship*: 2 yrs.' practice after obtaining the membership, and a thesis on results of original research followed by

oral and, if deemed necessary, written and practical examns. Fee, 15 gs.

For admission to the examn. for the *Diploma in V. State Medicine* it is necessary after graduation as M.R.C.V.S. to take a special course at a V. School and undergo training under a County or Municipal V. Inspector. Fee, £5:5s

Students of Vet Science who register as matriculated students of London or Edinburgh Univ may sit as Internal students for the Degrees of BSc and DSc in Vet Science. Matriculated students of the Liverpool School are eligible to take the examns for the Degrees of B.V.Sc and D.V.Sc. Holders of the Diploma of M.R.C.V.S are also eligible, after taking a special post-graduate course at the Univ of Liverpool, for the Diploma in Vet Hygiene (D.V.H.), and after a post-graduate course at the University of Manchester for the Diploma in Veterinary State Medicine

## THE ROYAL SANITARY INSTITUTE

Founded 1876. Incorporated 1888 Address — 90 Buckingham Palace Road, London, S.W. 1. Branches in S. Africa, New Zealand, and New South Wales, and Examination Boards in all parts of the British Dominions.

The Institute is a composite body, representative of the various sciences allied to sanitation and public health, and its members (nearly 5000) include Medical men, Engineers, Architects, Municipal Officers, etc

Qualifications for (1) Membership: evidence of attainments of standard indicated by certain of the Inst's own certificates, a Degree of a University, or Diploma of a Medical Corporation recognized by the Council, San Science Certif of Surveyors' Instn, Testamur of the Instn. of Munic and County Engineers, and membership of certain other professional bodies, (2) Associateship one of the Inst's certificates or other evidence of attainments of similar standard Annual Subsn for Members, 1½ to 2 gs, Associates, 15s to 1 g. Fellows are elected from Members of at least one year's standing Authorized signatures M.R.San.I., A.R.San.I.

Examinations held by the Institute (fee, 4 to 5 gs) : (1) Inspectors of Meat and Foods; (2) Smoke Inspectors, (3) Sanitary Science as applied to Buildings, etc., (4) Health Visitors, (5) Maternity and Child Welfare Workers, (6) School Hygiene, including Elem. Physiol.; (7) Tropical Hygiene for Inspectors. The Institute's Certificates (Cert. R.San.I.) are well known throughout the United Kingdom and the Overseas Dominions, and are recognized by Public Authorities as qualifications for appointments.

The examns are held in London and in numerous other towns in the U.K. and in Canada, Australasia, S. Africa, Hong-Kong, West Indies, Straits Settlements, and Mauritius. Examns. for San. Inspectors are held in Bombay and Rangoon in co-operation with the Local Governments.

Courses of Lectures and Demonstrations are held in London in spring and autumn. Fees, 5 to 6 gs

The Parkes Museum, founded 1876, became part of the Inst. in 1888. It serves as a public demonstrating school. The Inst. has a large Library, including many foreign works. Sessional meetings, about ten yearly, are held in London and other large towns.

Congresses and exhibitions have been held almost every year since 1877

*Publications* *Journal*, monthly, and numerous pamphlets.

## ROYAL INSTITUTE OF PUBLIC HEALTH

Founded 1886 Incorporated 1892 *Address*—37 Russell Square, London, W C 1

The Institute provides courses of Instruction qualifying for admission to the examinations for the Degrees and Diplomas in Public Health of all the Univs and Medical Corporations. Fees for Laboratory Instruction 6 months, 34 gs, P H Admn, 15 gs, Fever Hosp. Admn, 4 gs, Special Lab Fees, Chem or Bact, monthly, 6 gs, 3 months, 15 gs. Courses of free lectures are also given in the Lecture Hall of the Inst. Special lectures open to Fellows, Members, and Students. Subscription, 1 g p a. Registration Fee, 1 g

The Laboratories are recognized as a place of research in connexion with the Beit Memorial Fellowships. Researches and Clinical Examns are undertaken for Public Bodies and Med Practitioners. Culture media of all descriptions are supplied.

Reference Library containing all important P H Works, Govt. Reports, etc

*Publication* *Journal of State Medicine*, monthly, 2s

## INSTITUTE OF HYGIENE

Founded 1903 *Address*—28 Portland Place, London, W 1.

Examinations for Certificates and Diplomas (advanced) are held at various universities throughout the U.K. on the second Saturday of Jan and of June each year. Subjects: General Hygiene, School H, Mothercraft and Child Welfare. Fee, 1 g to 2 gs. Complete syllabus with list of Text Books, 1s. Specimen questions, 1d.

The Certificate and Diploma in General Hygiene qualify for nomination as Associate and Member (M I.H.) respectively of the Inst.

Public Lectures are regularly given throughout the year in the Lecture Hall. The Inst. has Laboratories for analytical and bacteriological investigation, and a Museum of Hygiene open to the public free throughout the year.

## XII

## THE INSTITUTION OF MINING AND METALLURGY

Founded 1892 Incorporated by Royal Charter 1915 Objects: Advancement of the Science and Practice of Mining in respect of minerals other than coal and of Metallurgy in respect of metals other than iron; and to afford a means of facilitating the acquisition and preservation of that knowledge which pertains to the profession of a Mining Engineer and Metallurgist Address—Cleveland House, 225 City Road, London, E C 1 Telegrams—"Minanmet, Barb, London."

Qualifications for Membership (M.Inst.M.M.): minimum age, 30, having been for at least 5 yrs in full charge of important mining or metallurgical operations or in practice as a Consulting Mining Engineer or Metallurgist; if born after Dec 31, 1894, a regular course of at least 3 yrs' study in pure or applied science. Qualifications for Associateship (Assoc Inst M.M.) minimum age, 25, having been engaged in mining or metallurgical pursuits for not less than (a) 2 yrs if a graduate of the R S M or other mining college or school of equivalent standing; (b) 3 yrs, or such longer period as Council may determine, if a graduate of some other college or school, (c) 6 yrs in other cases The minimum age for admission as student is 18. A candidate for either Membership or Associateship must be actually practising his profession at the time, and must satisfy the Council as to his fitness for admission. The Council may elect a candidate as Member in consideration of his position and attainments in Science or Technology. Entrance fee and annual subsn for Member, 5 gs each; Assoc, 3 gs. Students pay subsn., 1 g. (over 25—1½ g) p a and no entrance fee

General meetings for discussion of papers monthly, Oct-May. Large Library, reading- and writing-rooms. Publications *Bulletin*, monthly (£1. 11:6 p a), and *Transactions* annually (£1: 11:6 p vol.), may be purchased by non-members. Gold medals, etc, are awarded by the Instn for promoting its objects The Instn is closely associated with the Royal School of Mines. *Secretary*: Charles McDermid.

## EMPIRE COUNCIL OF MINING AND METALLURGICAL INSTITUTIONS

At an Empire Mining and Metallurgical Congress held at the British Empire Exhibition, 1924, it was resolved to form a Council to promote intercommunication and co-operation between the constituent institutions, to create and maintain a higher standard of technical efficiency and professional status, to convene future Congresses, etc. *Secretary-General*—Charles McDermid. Address—Cleveland House, 225 City Road, London, E.C.1.

## INSTITUTION OF MINING ENGINEERS

Established 1889 Incorporated by Royal Charter 1915. *Address*—Cleveland House, 225 City Road, London, E.C.1. *Telegrams*—"Instumini, Phone, London."

The Institn.'s objects and purposes are "the advancement of coal and iron-ore mining and allied industries, and the promotion of the acquisition of the knowledge necessary for the control and direction of mining operations in relation to stratified deposits" It is a federation of the Manchester Geol. and Mining Soc.; the Midland Counties Instn. of Engineers; the Midland Instn. of Mining Engineers; the Mining Inst of Scotland, the North of England Inst of Mining and Mech. E.; the North Staffs. Inst. of Min. E., and the South Staffs. and Warwickshire Inst. of Min. E. Membership of the Institution is obtained by nomination through the Council of one or other of the Federated Institutes

Conditions of admission to membership since Jan. 12, 1916, include (a) regular education and training as a Min E., and 5 yrs.' work in a responsible position in practical Mining, or (b) First-Class Certif of Competency under Coal Mines Act, and tenure of post as Manager, Asst. Manager, Under-Manager, or Chief Surveyor; or (c) position or attainments rendering his membership desirable in the opinion of the Council. There are Hon. Members, Members, Associate Members, Associates, and Students

*Publications. Transactions* (in which are included procdgs of Federated Insts. as well as those of the Instn. itself), 75 vols Price to non-members, 36s each for current volumes, back volumes at varying rates. Authorized signatures: M.I.Min.E.; Assoc M.I Min.E., etc. *Secretary* Charles McDermid

## THE IRON AND STEEL INSTITUTE

Founded 1869 Incorporated by Royal Charter 1899. *Address*—28 Victoria St, London, S.W.1.

Qualifications: (1) for Membership—minimum age, 21, being practically engaged in iron or steel works or being a person of scientific attainments in metallurgy or specially interested in the applications of iron and steel. Entrance fee, 2 gs, annual subsn, 3 gs (if resident abroad, 2½ gs). (2) For Associateship—maximum age, 24; being (a) Student of Metallurgy taking a course at a Univ., Univ. College, or Tech. School, or (b) pupil or apprentice in metallurgy or engineering, or (c) employed in some practical or scientific capacity in met. or engin. works. Annual subsn., 1 g. Initials denoting membership, M.I.S.I., A.I.S.I.

Meetings in May and Sept. for reading and discussion of papers. Library, reference and lending; printed catalogue. Information Bureau; service not restricted to members.

*Carnegie Research Fund*—£20,000, interest on which is used for grants to assist metallurgists and students in conducting researches

*Williams Prize Fund*—£3000, interest on which is applied as a money award for the best practical paper, on manufacture or treatment of iron or steel, presented in any one year

*Publications* *Journal* in 2 vols. annually; *Carnegie Scholarship Memoirs*, 1 vol. annually.

## THE INSTITUTE OF METALS

Founded 1908. Incorporated 1910. *Address*—36 Victoria St, London, S W 1

Local Sections in Birmingham, Glasgow, London, Newcastle-on-Tyne, Swansea, Sheffield

Qualifications for Ordinary Membership (M Inst Met) . minimum age, 23, occupying a responsible position, being either engaged in the manufacture, working or use of non-ferrous metals and alloys, or a person of scientific, technical or literary attainments connected with or interested in the metal trades or with the application of non-ferrous metals and alloys. Limits of age for Student Members, 18-23 Entrance fee and annual subsn for Ordinary Members, 2 gs and 3 gs. Students, 1 g and 1 g Associate members of local sections pay a nominal subscription and do not receive the *Journal*. *Fellows* (F Inst Met) are limited in number to 12 They are chosen by Council for having rendered eminent service to the Assocn

The Inst aims at "the advancement of the non-ferrous metals industry and the associated sciences," by the co-operation of manufacturers, users and scientific investigators It concerns itself rather with the manufacture and working of metals and alloys and with their properties and modes of treatment and testing, than with the production of metals from their ores The leading features of its work are the holding of sessions in the spring and autumn and an annual "May lecture" given by some acknowledged master of his subject, in addition a special "Practical lecture" is given annually in the autumn by an expert non-ferrous technician.

The *Journal* contains in addition to the proceedings of all the meetings abstracts and reviews of all the more important current publications, British and foreign, bearing upon non-ferrous metals. Price to non-members, £3:5s for the two annual vols (post free).

*Library* with all the current journals of interest to those concerned with metals

*Research* is encouraged, directed, and even undertaken by means of a series of special committees, the most important being the Corrosion Research Committee, which began its work in 1910, and after receiving substantial help from the Govt. Dept. of Scientific and Industrial Research was augmented by the addition of representatives of several Govt. Depts. and Professional Institns.

# INSTITUTION OF PETROLEUM TECHNOLOGISTS

Incorporated 1914. *Address*—Aldine House, Bedford St., Strand, London, W.C 2.

Conditions of admission .

A. *To Membership* (M.Inst P.T) Candidates (a) must (1) be not less than 28 years of age, (2) have received a good general and scientific education, (3) have held for at least 5 years a responsible post in petroleum technology, or (b) must be in the opinion of the Council fit and proper persons to belong to the institution

B *To Associate Membership* (A M Inst.P T) Candidates must (1) have received a good general and scientific education, (2) have had at least 2 yrs.' practical experience as petroleum technologists

Annual subscriptions: Students 1 g., Associates 2 gs, Assoc. members 2½ gs, Members 3 gs

*Publications.* *Journal*, bi-monthly, 7s. 6d. (free to members). *Rules, etc*, 4s. *The Petroleum Industry*, 2s. 6d. *List of Members*, 1s. 6d. *Report of Standard Methods of Testing of Petroleum and its Products*, 3s (New revised edition will be published shortly)

## XIII

# THE CHARTERED INSTITUTE OF PATENT AGENTS

Founded 1882 Incorporated by Royal Charter, 1891 *Address*—Mitale Inn Buildings, London, W.C.1.

Under the Patents and Designs Acts, 1907 and 1919, it is illegal to practise as a Patent Agent without being duly registered The Register of Patent Agents is kept by the Institute in accordance with the Board of Trade's Rules of 1920

*Examinations* are conducted or recognized by the Inst for the two purposes of Registration of P A 's and the admission to the Inst of Fellows, Associates and Students

The Inst recognizes as Preliminary exams those of Matriculation

The Inst. holds each year (i) Intermediate (fee, 2 gs.), and (ii) Final exams (fee, 3 gs.), qualifying for Registration Latest date for entry, March 7 Subjects of (i). A. Patent Law and Practice, Designs, Trade-marks, Foreign Law, the reading of Mechanical Drawings; B. Manufactures, Science, and the preparation of Mechanical Drawings. Subjects of (ii) . A Preparation of Specifications for British Colonial and Foreign Patents, B. Interpretation of British Specifications. A candidate for admission to (i) must have passed one of the approved prelim exams. and (a) have served 3 yrs as a pupil or technical asst. or one or more registered P A 's or (b) have so served for 2 yrs. and attended a 2 yrs.' course at an approved Tech. Coll. or had 2 yrs.'

approved practical experience, or (c) have so served for 1 yr. *and taken* a degree at a Univ. of the U.K. or attended a 3 yrs' course at an approved Tech. Coll. or had 3 yrs.' approved practical experience; or (d) have served in the Patent Office for 5 yrs. as a member of the Examining Staff (Patents), or (e) be entitled to practise as a Solicitor or (Scotland) Law Agent.

Candidates for admission to (11) must have passed (1) and have served as above for a period of 2 yrs. in excess of term prescribed under (a), (b), or (c) above, as case may be, or be entitled as in case (e)

Minimum age for membership of the Inst.—25. Other qualifications: For Fellowship, (a) having ceased to be an Associate by reason of being in practice on own account as P A, (b) having passed Final examn.; (c) special dispensation in case of candidate specially approved by the Council. For Associateship (not applicable to person registered as a P A), (a) being qualified and able by reason of connexion with the Law, Science, or the Arts, to advance the objects of the Inst., (b) being pupil or asst of 3 yrs' standing of a Fellow or a Student attached to the Inst. and having passed Intern Examn. For Foreign Membership: having been established in practice as P A. for a sufficient time not less than 3 yrs. in a British Colony or Dependency or in a Foreign Country and neither having an office nor practising in the U.K.

Minimum age for "Studentship"—18. Other qualifications: being an articled pupil of a Registered P A and having passed an approved Prelim examn.

Fellows may use the initials C P A after their names

Entrance fee for Fellow, 3 gs., Assoc, 2 gs.; Foreign Members, 2 gs., Student, 1 g. Annual subs: for Fellow, 3 gs., for Foreign Members, 2 gs.; other classes, 1 g.

## XIV

### PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

*Address*—17 Bloomsbury Sq., London, W.C.1.

Examinations (open to women as well as men) are held in London and Edinburgh in Jan., April, July, and Sept. or Oct. the *Preliminary Scientific* examn (fee, 6 gs.) followed by either the *Chemist and Druggist Qualifying* examn (fee, 12 gs.), for registration under the Pharmacy Act, 1868, or the *Pharmaceutical Chemist Qualifying* examn (fee, 12 gs., April and July) for registration as Pharmaceutical Chemist (Ph C) under the Act of 1852. No person can enter for the Preliminary Scientific examn who is not a *Registered Apprentice or Student*, and this involves passing in four specified subjects at not more than 2 approved preliminary examns of Matriculation standard.

The Society's *School* is recognized by the Univ. of London as a School of the Univ. in Pharmacy, and the Dean of the School is Univ. Prof. of Pharmaceutics.



## XV

## INSTITUTE OF PHYSICS

Founded 1918 by co-operation in the first instance of the PHYSICAL, the FARADAY, and the OPTICAL Societies, and incorporated under the Companies' Acts in 1920. Other participating Societies are: The ROYAL METEOROLOGICAL Society, the ROYAL MICROSCOPICAL Society, and the BRITISH INSTITUTE OF RADIOLOGY. *Address*—1 Lowther Gardens, Exhibition Rd, London, S W 7

Corporate members consist of two classes: *Associates* (A.Inst.P.) and *Fellows* (F.Inst.P.). Qualifications for Associateship include the passing of an examn. held by the Institute or a recognized equivalent examn.; and, in addition, a year's approved research or manufacturing experience. The examn. may be dispensed with in the cases of candidates with qualifications approved by the Board. A candidate for Fellowship has, in addition to his academic qualifications, to show a total record of 5 years' experience either in research or manufacture or in any position requiring a thorough knowledge of Physics. Entrance fees, 1 g. and 2 gs. Annual subsns 1 g. and 2 gs. All classes of membership are open to women on the same terms as to men.

An *Appointments Register* and a *Panel of Consulting Physicists* are maintained.

A series of Lectures on "Physics in Industry" was instituted in 1922. Part I, published by Henry Frowde and Hodder & Stoughton in their "Oxford Technical Publications"; II, III, IV, and V, Oxford Univ. Press. The Institute produces the monthly *Journal of Scientific Instruments* in co-operation with the National Physical Laboratory (price 2s 6d, subscription 30s. p.a., payable to Cambridge Univ. Press)

## XVI

## CHARTERED INSTITUTE OF SECRETARIES

## OF JOINT-STOCK COMPANIES AND OTHER PUBLIC BODIES

Founded 1891. Incorporated by Royal Charter, 1902. *Address*—6 London Wall, London, E.C.2. Branches at Birmingham, Bristol, Liverpool, Manchester, Newcastle-on-Tyne, Nottingham (for N.E. Midlands), Bradford and Leeds (for West Yorks), Sheffield, Cardiff, Swansea, Edinburgh, Glasgow, and overseas in Canada (Montreal and

Toronto), Australia (Brisbane, Melbourne, and Sydney), and South Africa (Johannesburg)

Examinations are held in London and at various other places both at home and abroad in June and Dec. A candidate must either enter into Articles of Clerkship with a member of the Inst. for a period of 4 yrs. (if a graduate, 3 yrs.) or obtain registration as *Student* in course of preparation for the secretarial profession.

The *Preliminary* examn (fee, 1 g , min. age, 16) comprises English (Grammar, Compn., Dictn ), Engl. Hist., Geog., Elem. Maths , one foreign lang , and one of Latin, Greek, Maths , Physics, Chem , Elem. Mech , Stenography. Approved examns of matricn standard exempt from the Preliminary examn

For admission to the *Intermediate* (fee, 2 gs ) a candidate must have passed or been exempted from the Prelim Graduates in Arts, Commerce, Law, or Science of recognized Univs in the U K , and persons who have passed the Final of the Bar Council, Law Soc , Inst C A , or Soc. of Inc. Acctts and Audrs , are allowed a pass in the Interim on attaining the usual standard of proficiency in any 4 of the specified examn subjects they select approved by the Council, but must pass the Final as a whole before election to membership

For admission to the *Final* (fee, 2 gs ; min. age, 21) a candidate must have passed the Interim The subjects are . Economics, Sec. practice and duties, Law and practice in connexion with meetings, Book-keeping and Accts , Merc Law, an approved foreign language, or Banking and Exchange, and one special law subject (e g. Companies or Insurance)

*Associate Membership* (A C I S ) can be obtained after 6 yrs ' service with a Public Coy or Body , *Fellowship* (F C I S ), after 8 yrs ' , of which 3 have been as Secy or Asst Secy A Fellow may describe himself as a Chartered Secretary , so likewise may an Associate if having passed the Final Examn he holds or has held office as a Secretary, Asst Sec., Chief Acct , Registrar or Chief Clerk of a Company, or other body corporate.

*Publications* . *Yearbook, Secretarial Practice* (10s ) , *Powers of Attorney* (3s 6d ) , *The Secretary* (monthly, 1s )

## THE INCORPORATED SECRETARIES ASSOCIATION

Incorporated 1907. *Address*—21 Bedford Square, W C 1. Branches at Manchester, Liverpool, Birmingham, Leeds, Sheffield, Nottingham, Newcastle, Bristol, Glasgow, Cardiff, Swansea, etc , and at Bombay, South Africa, British West Indies, etc.

**EXAMINATIONS** —Candidates for the examinations of the Association, Preliminary, Intermediate, and Final, which are held in London and other centres in June and December, must be registered as Students or Graduates as the case may be.

The subjects in which candidates are examined are almost identical with those of the Chartered Institute.

There are two grades of membership which are available to both men and women on equal terms. (1) Associateship, which entitles a member to describe himself as an "Incorporated Secretary," and to use the qualifying letters "A I S A" after his name, and (2) Fellowship, which entitles a member to describe himself as an "Incorporated Secretary," and to use the letters "F. I S A" after his name

*Publication* The Incorporated Secretaries Journal.

## XVII

### SURVEYORS' INSTITUTION

Founded 1868 Incorporated by Royal Charters, 1881 and 1921  
*Address*—12 Great George St, Westminster, S W 1

Professional exams (fees Interm or Final, 4 gs., Direct Fellowship, 5 gs., applications receivable in Sept) are held in March in London, Glasgow, and Dublin, and a Prelim examn (fee, 1½ g.) in Jan in the same places and Manchester

The *Preliminary* (min age, 16) comprises Elem. Maths, Hist, Compn, and one of Latin, French, German, Inorg Chem, Botany, Geol. Candidates are expected to reach the standard of the Oxford and Cambridge School Certificate examn

Candidates are exempt from undergoing the Prelim if they have passed an approved examn of matriculation standard, Inst C E Studentship, Prelim of Inst C A, Law Soc, Auctioneers' and Estate Agents' Inst or Sandhurst or Woolwich

For admission to the (1) *Intermediate* (min age, 19), a candidate must, unless at an approved place of instruction (see below), be actually engaged in an office where he has opportunities of obtaining practical experience in the profession. The subjects are grouped thus: I chiefly Land Agency, II chiefly Valuation, III chiefly Building or chiefly Quantities, IV chiefly Mining. A candidate may select any one of these subdivisions. For the (II) ordinary *Final* examination the candidate must have passed the Interm in the subdivision which he takes for the Final. The (III) *Direct Fellowship* examn. (min. age, 30) may be taken, without having passed (1) or (II.), by a candidate who has been in practice on his own account for 5 yrs. All candidates or (1), unless they have passed one of the exempting exams, must have passed the Prelim. Examn or, if over the age of 25, a special test of general education

Candidates between the ages of 18 and 21 who have passed the Preliminary or Exempting examn are recommended to become Students. They must be pupils or assistants of a Surveyor or be taking a full-time course approved by the Council as bearing on the profession of Surveyor, at one of the Univs. of the U.K. or their Affiliated Colleges, or one of the

following · Harper Adams Agr. Coll., Newport; University Coll., Southampton, College of Estate Management; Midland Agr. and Dairy College, Seale-Hayne Agr. Coll., Newton Abbot; the School of Architecture, the Polytechnic, Regent Street, and, under certain conditions, the Northern Polytechnic, Holloway, N.

For election as *Professional Associate* (P.A.S.I.) a candidate must have passed (i) and (ii.), and be in practice as a Surveyor on his own account or employed as an Asst in a Surveyor's office. For the Fellowship (F.S.I.) a candidate must have passed either (i) and (ii) or (iii), and had 5 yrs.' experience as, and still be, either a Principal or Responsible Manager in an established business or a Head of a Dept. in the office of a public body reporting direct to his Board or Council.

*Scholarships* tenable for 3 yrs at any Univ in Great Britain have been established by the Council to the value of £130 if held at Oxford or Cambridge, and £100 elsewhere

## XVIII

### TEXTILE INSTITUTE

Founded 1910. Incorporated by Royal Charter 1925. *Address*—Head Office, St Mary's Parsonage, Manchester Branch office, 104 Newgate Street, London, E.C.1

The Associateship (A.T.I.) implies, in addition to attainments tested by examination in connexion with recognized training institutions, a good general knowledge of textile technology, with period of approved occupation Fellowship (F.T.I.) involves systematic study or research, subsequent to Associateship, and a further period of approved occupation.

## XIX

### TEACHERS REGISTRATION COUNCIL

Established by Act of Parliament and constituted by Orders in Council *Address*—47 Bedford Sq., W.C.1

The Conditions of Registration are: (a) a degree or other qualification approved by the Council, if obtained in respect of a technological subject the applicant must have spent 36 months, after attaining the age of 16, in the practice of the profession or industry in question, and of this period 12 mos must have been concurrent with or subsequent to the course for the degree (or other qualification), (b) successful completion of a course, extending over at least 1 academic year or its

equivalent, of training in the principles and methods of teaching, carried on under conditions approved by the Council and accompanied by practice under supervision, (c) experience as a teacher in educational institns. accepted for the purpose by the Council for a period varying according to circumstances, but in no case less than 1 academic year.

Condition (b) is waived in the case of a teacher who has had not less than 3 academic yrs.' experience as Recognized Teacher in Univs. and institns. of Univ. rank approved by the Council for this purpose. Until Dec. 31, 1930, condition (b) will be modified in other cases where the Council is satisfied that special circumstances have prevented the applicant from taking an approved course of training in teaching

Registration fee. A single and final payment of £2

## EDUCATION AND TRAINING OF TEACHERS IN ENGLAND AND WALES

Courses of training for the teaching profession, recognized and aided under the Regulations of the Board of Education, are provided in Training Colleges and in the Training Departments which form part of the work of all Univs. in England and of the constituent Colleges of the Univ. of Wales and the Univ. Colleges of Exeter, Nottingham, and Southampton

The Board's Regulations on the subject have recently been revised on lines which the Board have decided to follow in all their Regulations. So far as possible they are confined to the statement of the conditions upon which the Training Colleges will be recognized and aided by grants, and the responsibility for determining the particular means by which these conditions can best be satisfied is left primarily to the College authorities. The new Regulations embody those recommendations of the Departmental Committee on the Training of Teachers which the Board consider can now be made conditions of recognition and grant. The unification of the teaching profession and the removal of barriers between its different branches—objects which the Board had in view when they consolidated their several sets of Regulations for the Training of Teachers in 1918—have been carried a stage further by the abolition of the administrative distinctions between Elementary and Secondary Training Colleges. In pursuance of the Board's desire that their certificate for teachers should increasingly assume the character of an endorsement of qualifications independently tested by responsible academic authorities, detailed requirements about the various courses of training have been replaced by a simple provision to the effect that courses of training must be in accordance with a suitable curriculum, and that satisfactory arrangements must be made for the examination of the students at the end of their course. At the same time the authorities of Training Colleges have been invited to submit proposals to the Board showing the kinds of training which each College considers it can properly undertake; and representatives of Univs., Training Colleges, and other bodies are now considering the possibility of co-operation in the examination of students of a College or a group of Colleges for the purposes of their recognition as teachers

by the Board. Pending the completion of these consultations, the Board are making no changes in their requirements about the length of courses which they will approve for the purposes of the final examination

A person who desires to enter a Training College as a *recognized student* or as a *private student* intending to follow a course qualifying him for recognition as a Certificated Teacher must (i) be over the age of eighteen, or seventeen if he is commencing a four-year course which includes work for a University Degree, on the first day of the Academic year for which he is admitted to the College, or, if that day is the 1st August and the College authorities think fit, within two months thereafter, (ii) have passed before admission a First Examination for Secondary Schools or some approved examination of at least equivalent standard (*e.g.* the Matriculation Examination of any Univ. in England or Wales), and (iii) satisfy the College authorities as to his character, probable suitability for the teaching profession, and health and physical capacity for teaching. A person who desires to enter as a recognized (*i.e.* grant-earning) student must also (iv) be a British subject ordinarily resident in England or Wales, unless an exception to this rule is approved, and (v) sign a declaration of intention to complete the course of training and thereafter to adopt and follow the profession of teacher in an Approved school.

The principal types of courses at present recognized are (i) 4-year, *i.e.* 3 yrs. of study for a Univ. degree, followed by a year of professional training; (ii) 2-year, including a period of professional training concurrently with a period of academic study, this course may, under special conditions for individual students, be extended for a third year or renewed for a year after three years' teaching in approved schools, (iii) 1-year, for graduates or Certificated Teachers who have not previously been trained at Training Colleges.

As regards (i), a student may be admitted to the 2nd, 3rd, or 4th year if he has completed 1 yr., 2 yrs., or the whole of the course for a degree before entering the Training Department. He will not as a rule be certificated as a Teacher unless he has passed a Final examination for a degree.

As regards (ii), suitable Univ. examinations forming recognized stages in courses for degrees may, subject to certain conditions, be approved for individual students as alternative final examinations in academic subjects.

A course of training extending over not less than 1 yr. at a Secondary School and providing for a systematic study of the principles and practice of teaching may be approved for a person who has obtained a Univ. degree, and a grant may be paid by the Board to the Governing Body of the School.

Teachers with at least 5 years' teaching experience are eligible for Studentships. "Full-time Studentships" are grants not exceeding £100 for an academic year for full-time courses of advanced study or research either at Univs. or other institutions, these are intended for teachers who are able to obtain a term or longer period of grace from school teaching for the purpose, but not for the whole or part of an

ordinary degree course, "Part-time Studentships," entitling the holders to a grant not exceeding  $\frac{1}{4}$  of the fees of the proposed course, for approved part-time courses in Univs or other institutions, are now awarded only to teachers who are completing courses approved in previous years

The *College of Preceptors*, Bloomsbury Square, London, W.C.1, grants the following Diplomas to teachers: (1) A.C.P., (2) L.C.P., (3) F.C.P. The exams for A.C.P. are divided into Part I. non-professional subjects, and Part II the professional examn., including a practical test of ability to teach. The standard in each subject of Part I is that of the same subject in the London Univ. Intermediate Arts examn. The L.C.P. examn. is open to University graduates and holders of the A.C.P. Diploma. Candidates must submit evidence of 2 years' professional experience for A.C.P. and 3 years' experience for L.C.P. The F.C.P. Diploma is granted to candidates who, having already obtained the L.C.P. Diploma, submit a satisfactory thesis on some original research or experimental work in Education

The *College of Handicraft* (Hon. Registrar, J. Lloyd, A.C.P., F.Coll.H., 124 Belgrave Road, London, S.W.1), a constituent part of the Institute of Handicraft Teachers, incorporated in 1924, grants certificates of competency as Teachers of Handicraft to members of the Institute who satisfy the Board of Examiners of the College. The standard of examination is stated to be that of a University Diploma in Education, and the examinations are held in January of each year. A necessary qualification is recognition by the Board of Education as qualified teacher. Distinctive initials—M.Coll.H., etc. Academical dress may be worn by Members and Fellows

The *Interchange of teachers between different parts of the Empire* and mutual recognition of certificates and service were among the subjects considered at the Imperial Education Conference held at London under the Chairmanship of the Permanent Secretary to the Board of Education in July 1923, and a report was prepared by a committee of the Conference on I. Interchange, II. Recognition of (a) service given elsewhere than in the country of origin—for the purposes of superannuation, (b) previous service—for calculation of salary in case of teachers who migrate, III. Recognition of teachers' certificates throughout the Empire. The Teachers Superannuation Act of 1925 makes it possible for a teacher to leave service in a grant-aided school in England, and to serve for not more than 4 yrs. in the Dominions overseas without forfeiture of pension rights, provided 10 per cent of the salary last received in England is paid by the teacher for the period of overseas service

The League of the Empire (124 Belgrave Rd., London, S.W.1) promotes the interchange of teachers between the Mother Country and the Dominions on lines laid down by the Imperial Education Conference in 1923. The London County Council authorized the exchange of 50 teachers annually, and a number of local authorities in Great Britain also co-operate. Canadian, Australian, South African, and New Zealand Education Departments have reciprocated. A triennial Conference on Imperial Education is held by the League. The meeting in

1928 included a delegation of distinguished French educationalists. An article on the *Interchange of Teachers Scheme* was printed by the Board of Education in their Report for the year 1925-26. The League has appealed for funds for establishing as a Memorial to the teachers who fell in the Great War a "Home Centre" in London, where teachers from any part of the Empire may find housing accommodation and a meeting-place. Hon. Sec., Mrs Ord Marshall, C.B.E. Hon. Treasurer, Lord Askwith, K.C.B.

The Overseas Education League, under the auspices of the Govts. of the Dominion of Canada, Newfoundland, New Zealand, and the Depts. of Education of Alberta, B.C., Manit., N.S., N.B., Ont., P.E.I., Que., Sask., New S. Wales, Vict., W. Aust., Natal, and Sierra Leone, undertakes the organization of official visits of Teachers to Great Britain and other parts of the Empire, and interchange of Teachers and School Inspectors within the Empire. Tours for Canadian University Undergraduates to Great Britain and Europe are also arranged by the League. In 1925, for the first time, a party of British Secondary teachers and others visited Canada from Coast to Coast under its auspices. Office of the Hon. Organizer in Canada (the Exec. Secy., National Council of Education)—607 Boyd Bldg., Winnipeg.

The Fellowship of the Maple Leaf for the supply of British teachers for Western Canada and Australia is interested primarily in Elementary Schools, but also places teachers in Private Schools, High Schools, and Universities. Office—13 Victoria St., Westminster, S.W. 1.

## GENERAL

*Association of Scientific Workers* Founded 1918. Address—25 Victoria Street, London, S.W. 1. Aims at bringing together into one professional organization all qualified scientific workers, viz. those engaged in (a) University and other Higher Educational Institutions and State-aided Research Institutions, (b) Industry and Consultative Practice, (c) State and Municipal Scientific Departments. Yearly subscription, 10s. min. Official journal, published 6 times a year, *The Scientific Worker*. President, Prof. J. S. Huxley, M.A.; Genl. Secy., A. G. Church, D.S.O., B.Sc.

### *Professional Openings in the King's Dominions Overseas*

Information on this subject is available in the *Professional Handbook* issued by the Oversea Settlement Department, Caxton House, Tothill St., London, S.W. 1, in 7 Parts. I. Barristers and Solicitors, Notaries Public (price 9d). II. Chemists and Druggists, Dentists, Nurses; III. Dentists, Physicians and Surgeons, Veterinary Surgeons; IV. Civil Service, Clerks, Stenographers, Typists and Accountants, Commercial Travellers; V. Teachers and Governesses; VI. Architects and Engineers; VII. Auctioneers, Surveyors, Police. Price of each Part, 4d.



## XX

MATRICULATION EXAMINATIONS IN GREAT BRITAIN  
AND IRELAND AND EXEMPTION THEREFROM. (SEE ALSO  
APPENDIX XXII.)

EXEMPTING EXAMINATIONS INDICATED BY A NUMBER  
IN THIS APPENDIX

1. Oxford Responsions ;
2. Cambridge Previous ;
3. London Matriculation ;
4. Durham Matriculation ,
5. Wales Matriculation ;
6. Joint Board of Northern English Univs. (Manc., Liv., Leeds, Sheff , Birm ) Matricn ;
7. The same Board's School Certificate ,
8. Oxford and Cambridge Schools Examn Board's (a) Higher, (b) School ;
9. Oxford School Certificate (Senior Local) ;
10. Cambridge School Certificate (Senior Local) ;
11. Bristol School Certificate ,
12. Durham School Certificate ,
13. London General School ;
14. Central Welsh Board's School or Higher Certificate ,
15. Scottish Educn. Dept. Leaving Certif ,

[The *School* and *Higher School* Examinations and Certificates referred to in this Appendix are described on p 4 ]

(a) BIRMINGHAM, LEEDS, LIVERPOOL, MANCHESTER, AND SHEFFIELD

The Matriculation Examn held at each of these Univs. in July and Sept. (fee, £2) is conducted by a *Joint Board* Address of the Secy. (J. M. Crofts), 315 Oxford Rd , Manchester. Candidates are required to satisfy the examiners at one and the same examn. in English Composition, in 5 subjects chosen as follows, and in the examn. as a whole : I. either English Literature or History , II either Maths or Latin , III. three other subjects, not already taken under I. and II , chosen from : 1. Engl. Lit., 2. Hist., 3. Geog , 4. either Music or Art, 5. Greek, 6. Latin, 7. French, 8. German, 9. some other Approved Language, 10. Maths., 11. Mechanics, 12. Physics, 13. Chem , 14. Physics-with-Chemistry, 15. Natural Hist., 16. Botany , provided that candidates who take Maths. under II. must include one of subjects 5-9, and those who take Latin under II. must include one of 10-16. A paper on " Experimental Science in its relation to Agricultural Life " may be taken along with 16 but not with 12, 13, or 14. The several Univs. impose special conditions for entrance to certain Faculties.

*Exempting Examns.* Those numbered 1 and 2, London Intermediate

examn., Intermediate examn. in Arts, Sc., or Med. of an approved Indian Univ., Final Examn of Law Society (in case of Barrister or Solicitor entering Faculty of Law), Special Army Education Certificate at Advanced Standard, also, subject to provisos, Nos 3, 7, 8 (b), 9, 10, 11, 12, 13, 14, 15, and at the Board's discretion other examns. of equal or higher standard. A degree conferred by an approved Univ. after examination also entitles to exemption. See also Appendix XXII

*Trained Certificated Teachers* may obtain exemption under certain conditions

A *Special Examination* for candidates of mature years (not under 23 on May 1 of year of application) has been instituted. Applications (with fee, £2, and birth certif) will be received up to May 1.

A *Special Examination* has been instituted for candidates not below 19 yrs of age, who have been *engaged in industry* for at least 3 yrs since leaving school, and have as students attended satisfactory day or evening courses for at least 3 yrs. English (or History) and a foreign language are compulsory subjects. Date, July. Fee, £2.

#### *Special Regulations for Entrance to Faculties*

**BIRMINGHAM** Candidates entering the *Arts* faculty, except those taking a degree in Music, must have passed in Latin (or Greek) and a Modern language. Candidates for the LL.B. must have passed in Latin and a modern language. Those taking B.Sc. in *Pure Science* are recommended to take both French and German in Matricn examn; those taking B.Sc. in *Engineering*, to take Mechanics and Additional Maths.

**LEEDS** For admission to courses for the *B.A.* a Latin qualification is required. Candidates taking Physics as a principal subject for the *B.Sc.* must produce evidence of an adequate knowledge of Mechanics. *Medical* and *Dental* students are ordinarily required to have passed in Maths at the Matriculation Examn.

**LIVERPOOL** Candidates for the *B.A.* are required to have passed in Latin or Greek at matriculation standard. *Engineering* students are recommended to pass in Mathematics (with the paper in Additional Maths) and one of: Mechanics, Physics, Chemistry, they may not include Music or Art. *Medical* and *Dental* students must have passed in Physics and Chemistry and have attained 17 years of age.

**MANCHESTER** Candidates for the *B.A.* ordinary degree must pass the Intermediate Examn in Latin or Greek. Those intending to enter upon any Honours course in Arts (save Archit., Economics, Philos., and Geog) must ordinarily have passed in Latin or, for Hons. School of German or English, in Greek, unless prepared to devote 4 years to the course. For admission to a degree course in *Science* Maths and Mechanics are required. Candidates for the LL.B. must have passed in Latin at matriculation standard. For admission to a course for a degree in the Faculty of (a) Medicine, (b) Science, (c) Technology, respectively, are required: (a) Latin, Maths., and Mechanics, (b) Maths. and Mechanics, (c) Maths.

SHEFFIELD. Candidates for the *B.A.* with Honours (other than in Maths., Economics, or Geography) or for the *B.A.* ordinary degree must pass the Intermediate Examn in Latin or Greek, and no language course for the Intermediate Examn. may be entered upon without proof of an adequate elementary knowledge of the language. *Medical* and *Law* students must have qualified in Maths. and Latin respectively *Engineering* students should present Maths and include Mechanics or Physics or Chemistry.

(b) BRISTOL

The University recognizes as qualifying for Matriculation. 1. *Graduation* in a Univ. in the United Kingdom or some other approved Univ. 2. *Higher school certificate* 3 (1) School certificate with credit in five subjects taken at one and the same time, which must comprise (1) *either* English or History, (2) *either* Mathematics or Latin or Greek, (3) three other subjects not already taken under (1) and (2), which must be selected in accordance with regulations. A credit in Religious Knowledge or in Music or in Art is accepted (11) *School certificate* if the Senate is satisfied that such proficiency has been shown in a particular group of subjects as to qualify for curriculum for degree 4 *Scottish* Education Department's *Leaving Certificate* 5 Special Army Education Certificate 6 Trained certificated *teacher's* qualifications, under certain conditions 7 *Matriculation* examn of any univ. of the United Kingdom; Oxford Responsions, Cambridge Previous examn 8 Sufficient qualification for original *research* in case of candidate for research degree. 9 In exceptional circumstances sufficient education and attainments in case of candidate *over 23 years of age*

(c) CAMBRIDGE

The *Previous Examination* comprises: I (a) Latin, (b) Greek, (c) French, (d) German, (e) Italian, (f) Spanish, II (a) Maths. (elementary), (b) Maths. (less elementary), (c) Experimental Physics and/or Chemistry; III (a) English essay and précis writing, (b) Holy Scripture (a Gospel or the Acts of the Apostles), (c) English History

Candidates must pass in at least two of the languages in Part I., including (a) or (b), in II. (a) and either II. (b) or II. (c), and in III. (a) and either III. (b) or III. (c). The parts may be taken separately.

Natives of Asia or Africa, not being of European descent, may offer English literature in lieu of one of the languages [other than (a)] in Part I., and Arabic, Chinese, Sanskrit, or Pali, in lieu of I. (a).

*Exemption* is obtainable by means of: 1 *School Certificates*—(1) with credit in 5 subjects (or in 4, one at least from each of groups 1., 11, and 111) of which one must be Latin or Greek, or (11.) with less complete credit, giving only partial exemption, 2. *Higher School, Scottish Leaving, or Northern Ireland Senior Certificates*, subject to certain other conditions, 3. *Matriculation Certificates* (see below); 4. *Certificates of graduation* in any Univ. in Great Britain, provided that in one of the examns. leading up to the degree the candidate passed in Latin or Greek; 5. *Foreign Certificates* (see Appendix XXII.).

*Matriculation Certificates.* A student who has passed one of the undermentioned "approved examinations" is exempted from Part I. of the Previous Examn. if he passed in 2 languages other than English, one of which is Latin or Greek, provided that both were taken on one and the same occasion, from Part II. if he passed in either Mathematics or Physics or Chemistry, from Part III. if he passed in English.

The "approved examinations" are: Oxford Responsions and the Matriculation Examn. of the other English Univs., the Univ. of Belfast, and the N.U.I. (see also Appendix XXII.), the Preliminary Examn. in Arts or in Science of the Scottish Univs.; and examns. affording exemption from and examns. subsequent to matriculation in any of the above-mentioned Univs.

Exemption may also be granted to adult students recommended by the Board of Extra-mural Studies, and in exceptional circumstances the Council of the Senate may grant exemption in other cases

#### (d) DURHAM

A Matriculation Examn. is held for admission to the *Durham Colleges* only. The subjects are (a) Modern History or English, (b) Mathematics, (c) Chemistry, (d) Physics, (e) Logic, (f) Additional Mathematics, (g) Latin or Greek, (h) French or German, (j) Italian, (k) Spanish, (l) Geography, (m) Botany, (n) Religious Knowledge, including Greek Testament, (o) Ancient History. Students in Arts or Theology must take 5 subjects, including (a), (g), and one of (b), (c), (d), (e), in Science—5 subjects, including (a) and (b), either (c) or (d), a foreign language, ancient or modern, and one selected from a list, in Music—any 4 of the above named or a foreign language and 2 other subjects

The following are recognized for *exemption* from this examn.: (i) *graduation* in any Univ. in the United Kingdom or other Univ. recognized by the Matriculation Board, (ii) subject to certain conditions, *Higher School certificate*, *School certificate* with credit in not less than 5 subjects [other than Religious Knowledge and subjects in Group D], Matriculation examn. of any Univ. in Great Britain or Trinity College, Dublin, Oxford Responsions, Cambridge Previous, (iii) Scottish Leaving Certificate, higher or honours grade, (iv) Army Special Certificate; (v) Irish Free State Leaving Certificate.

In exceptional circumstances when a candidate is *over 23 years of age* other sufficient evidence of previous education and attainments is accepted. The Board interviews such candidates (in July only), submitting them to such examn. as it may think necessary.

For matriculation in the *College of Medicine* the following are recognized. I (i) graduation in Arts in a Univ. of the British Empire; (ii) certain of the School and Higher School certificates, the Scottish Leaving Certificate, and Matriculation examns. of Univs. in Great Britain and Ireland, provided the candidate passed in English, Elementary Maths, Greek or Latin (Oriental Students—Sanskrit), French or German, or other approved modern foreign language, and one other subject from a list of 15.

For admission to *Armstrong College* the following are recognized

subject to specified conditions as to required subjects (the candidate must have passed in either 5 at one examn. or 4 at one and 2 at a subsequent examn.) : certain of the School (with credit) or Higher School certificates, the Scottish Leaving Certificate, and Matriculation examns. of Univs. in England. The required subjects are English, Elementary Mathematics, one of Latin or Greek or French or German, and 2 other subjects (or 3 when the candidate passed in only 4 required subjects at one examn.) from a list of 19

Candidates of *more than 23 years of age* whose native language is English may be admitted on producing satisfactory evidence of educational attainments.

In special circumstances a special entrance examination may be taken by candidates who have been *engaged in technical pursuits* for 2 years approximately, and propose to study Engineering, Naval Architecture, Mining, Metallurgy, or Agriculture. The subjects of the Examn. (held in Sept) are : English, a modern foreign language, Elem. Maths, two other selected subjects.

In special circumstances not provided for above, candidates may apply for exemption from ordinary requirements.

#### (e) LONDON

The University conducts 3 examns qualifying for matriculation : 1. the ordinary Matric Examn., 2. the General School Examn, 3. the Examn under Statute 116. As regards 2. and 3., see pp 107 and 668. To pass 1 a candidate must at one and the same examn. satisfy the examiners in English, Elementary Maths, and 3 of the following : (a) Latin, (b) Greek, (c) Botany, (d) Chemistry, (e) Heat, Light, and Sound, (f) Mechanics, (g) Electricity and Magnetism, (h) French, (j) German, (k) Italian, (l) Russian, (m) Spanish, (n) another approved language, (o) History—Roman, or Greek, or English, or European, or of the British Empire, (p) Geography, (q) Logic, (r) Drawing—geometrical and mechanical, (s) Maths—more advanced, (t) Zoology, (u) Geology, (v) Music—theory, (w) Economics. One of the 7 subjects (a) to (g) must be included, and one of the subjects offered must be a language other than English. Candidates may present two special oriental languages under certain conditions. At the Intermediate Examn. in Arts it is compulsory to offer (a) or (b), whether taken at the Matricn. examn. or not. Law students are advised to offer (a) and English History at their Matricn. Examn. Candidates should obtain Regulations from External Registrar, University of London.

*Exemption* may be obtained by (1) graduates of approved Univs. and persons who have passed all examns. required for a degree in those Univs., (2) subject to certain conditions, among them the passing with credit in five subjects at one and the same examn., persons who have passed the examns. numbered 7, 8 (b), 9, 10, 12, (3) subject to other conditions persons who have passed examns. 2, 6, 8 (a), 15. See also Appendix XXII.

#### (f) OXFORD

*Responsions* comprises : I. (a) Latin, (b) Greek ; II. (a) English, (b) French, (c) German, (d) Italian, (e) Spanish, III. (a) Maths., (b)

Natural Science. To pass, a candidate must have satisfied the examiners *either* in both subjects from Group I and in both subjects from Group III., *or* in at least one from each group and in 4 subjects in all; he must also have passed in 2 languages other than English, and either have passed in all 4 subjects at one examn (in which case special merit in one or more subjects may compensate for comparative weakness in any one) or in 3 at one examn and in a fourth at a subsequent examn.

*Exemption* may be obtained: A. by persons accepted for admission as *Service Students* or *Imperial Forest Service Students* or *Special Students* or *affiliated Colonial, Indian, or Foreign Senior or Junior Students*, or as candidates for the Degree of B.C.L. under certain conditions, or as *Advanced Students*, or as candidates for the Degree of B.Litt. or of B.Sc., or who hold a degree at another Univ., such degree and such Univ. having been approved by the Hebdomadal Council, or as *students of mature years* recommended by the Delegates for Extramural Studies under certain conditions

B. subject, *inter alia*, to passing in 2 languages other than English, of which either Latin or Greek shall be one, persons who have passed a School or Higher School Certificate Examn or gained a class in the Final Senior Freshman Examn of Dublin or a Scottish Preliminary Examn Certificate, or passed any of the examns numbered 2, 3, 5, 6, 15, or the Northern Ireland Senior Certificate, or the Intermediate Arts or higher examn of Birmingham, Durham, Leeds, Liverpool, London, Manchester, Sheffield, or Bristol.

#### (g) READING

*Matriculation*, minimum age 17, is open to (a) graduates of Univs. in the United Kingdom or other approved Univs., (b) persons who have passed or obtained exemption from the matriculation examn of the Univ. of London or of the Joint Board (v. *supra*), or have satisfied the conditions for such exemption; (c) persons who, being at least 25 years of age, have passed a special examination held by the Univ. "for approved candidates of mature years" In exceptional circumstances the Senate may accept other evidence of previous education and attainments.

#### (h) WALES

The Matriculation Examn, the passing of which is a condition of matriculation for students of the constituent Colleges who have not passed an equivalent examn., is held at each of these Colleges about the end of Jan. and the end of June each year. The subjects are (a) English, (b) Latin, (c) Greek, (d) Welsh, (e) French, German, other approved languages, (f) History, (g) Music, (h) Mathematics, (j) Mechanics, (k) Physics, (l) Chemistry, (m) Botany, (n) Biology, (o) Geography, (p) General Science. A candidate must pass at one and the same examn. in 5 subjects, including (a), one of (b), (c), (h), at least one language [and not more than two unless both (b) and (c) are offered] in addition to English, and either (h) or one of (j) to (p). No candidate may offer both (j) and (k) or both (m) and (n), or both (p) and one of (j) to (o).

*Examinations recognized as equivalent* subject for subject : (a) The Matricn. examns. of London, of the Northern English Univs. Joint Board, or of Dublin, or the Preliminary Examn. of the Scottish Joint Board, (b) School Certificate Examns. (except Durham's), the Leaving Certificate (Higher Grade) of the Scottish Education Dept., the Senior Certificate of the Ministry of Education for Northern Ireland, and the Leaving Certificate of the Intermediate Education Commissioners of the Irish Free State (with credit at one and the same examn in each of the subjects required by the Welsh matricn regulations) A pass in a "First Examn." in Music gained before 1925 will not count for exemption, nor will other passes before July 1, 1924, except in accordance with conditions for exemption then in force.

Candidates of 23 or more years of age may be exempted on the special recommendation of a constituent College.

### (1) SCOTTISH UNIVERSITIES

*Qualifications for admission to degree courses in Scottish Universities.*

I. Scottish Education Dept.'s Group Leaving Certificate showing passes (including at least two on the Higher Standard) in at least 4 of the following subjects : (i) English (including Literature and History) ; (ii) Mathematics, Dynamics, Physical Science, (iii) Latin, Greek, French, German, Italian, Spanish, Gaelic, (iv) Natural Science, Art, Music, Applied Science. Provided (a) the passes must include one from each of the groups ii and iii, (b) unless they include three on the higher standard the Certificate must show either (1) passes in Latin (or Greek) and in Maths, or (2) a pass on the Higher Standard in Latin (or Greek) or in Maths, and all the four passes must be in subjects taken from groups (i), (ii) and (iii).

II. Other certificates affording evidence of a satisfactory secondary education on lines above specified

III Examination under the Entrance Board in 4 subjects selected from the following, including at least one from each group : (i.) as under Clause I., (ii) Maths., Physical Science, (iii) as under Clause I., or other approved language. Proviso (b) applies, and candidates are ordinarily required to reach the higher standard in English. The only subjects in this examination in which lower standard passes can be obtained are Latin, Greek, and Maths

Examinations recognized in the case of applicants from outside Scotland : (a) Oxford Responsions ; (b) Cambridge Previous ; (c) any School or Local Examns conducted under the auspices of the Univ. of Oxford or Cambridge which are accepted as exempting from (a) or (b) respectively ; (d) London matriculation examn. A candidate who has been educated chiefly in England, or Wales, or Ireland, and who has such qualifications as would admit him to a Faculty in a Univ. in one of those countries, will be exempted from the Preliminary examn. Special application for partial exemption may be applied for where the conditions for complete exemption have not been fulfilled. See also Appendix XXII.

## (j) BELFAST

The Matriculation Examn. comprises English, Mathematics, and 3 of the following : (a) Greek, (b) Latin, (c) French, (d) German, (e) Italian, (f) Spanish, (g) Modern History, (h) Physics or Mechanics, (j) Geography, (k) Chemistry, (l) Botany, (m) for Faculties of Arts, Commerce, Applied Science, and Technology—Celtic, (n) for Science, Medicine, or Applied Science or Technology—Mechanical Drawing ; for Commerce—(o) Elementary Economics, and (p) Accounting ; for Faculty of Arts (q) Music For Arts, Science, or Medicine one language other than English must be taken, for Commerce—French or German or Spanish ; for Applied Science or Technology—one of the languages (a)-(f). ; for Faculty of Law—Latin Candidates for Faculty of Arts may, under certain conditions, take Latin or Greek instead of Maths

For Engineering students there is a special Matricn Examn. comprising English, Maths, Further Maths, Greek or Latin or French or German or Italian or Spanish, Physics or Chemistry, Modern History or Geography

A candidate who has passed in at least 3 subjects, but failed to pass the examn. as a whole, is allowed to complete his matricn at the next subsequent examn

For *exemption* the Univ. recognizes : 1. graduation in a British Univ. ; 2. the Final Junior Freshman Examn. of Dublin, provided the candidate has passed in the subjects required by Belfast and, in the case of medical students, the subjects required by the G.M.C. 3. for entry to any faculty the candidate would have been entitled to enter in the Univ. whose examn. he has passed—the examns. numbered 1, 2 (Parts I. and II.), 3, 5, 6, 13, or the examn. of the Scottish Univs' Entrance Board, 4. subject for subject—the examns. 8 (a), 8 (b) (with credit at one and the same examn. in all subjects), 9, 10, 11, 15 (Higher or Honours), and certain others

*Students of mature age* (not less than 23) may be admitted without passing the ordinary Matricn. Examn. Applications are dealt with by a special committee of the Academic Council, who may submit such candidates to such tests of their fitness to profit by the courses of the Univ. as they may consider necessary in each case

## (k) DUBLIN

The Matriculation Examn. in Arts, held five times a year, comprises English Composition, Mathematics, English History, Modern Geography, Latin, and one of : Greek, French, German, Italian, Spanish, Irish

The Matriculation Examn. in Science comprises English, Mathematics, French or German, and one other language.

*Exemption*, partial or complete, may be obtained by candidates who hold the leaving certificate of the Department of Education, or any other examn. regarded by the Senior Lecturer as equivalent thereto.

## (l) NATIONAL UNIVERSITY OF IRELAND

The Matriculation Examn., held twice a year, comprises six groups of subjects : (a) Irish, (b) Latin or Greek, (c) any modern language approved



by the Senate, (*d*) English, (*e*) Maths., (*f*) Latin, Greek, any modern language approved by the Senate, History, Geography, Applied Maths. or Physics, Chemistry, Botany (for women candidates only), Physiology, and Hygiene. Candidates must pass in 5 subjects, and none except engineering students may present more.

Those born in Ireland, whose home residence has not been outside Ireland during the 3 preceding years, must pass in Group I. Others may present in lieu of Irish either a second language or a second Science subject, they will be expected to attend a course in Irish Literature and History before obtaining a degree in the Univ. Students entering for Degrees in (1) Arts, Philosophy, and Celtic studies, (2) Law, (3) Medicine or Dentistry, (4) Science and Commerce, (5) Engineering, must take: (1) subjects in groups (*a*), (*b*), (*d*), (*e*), (*f*), (2) Latin, and subjects in (*a*), (*d*), (*e*), (*f*), (3) Latin, (*a*), (*d*), (*e*), and a fifth subject, but if already registered by the G M C, students may take the subjects prescribed for any other faculty, (4) or (5) one from each of (*a*), (*d*), (*e*), and two others from (*f*).

*Exemption.* Passes in the Intermediate Senior Grade or the Leaving Certificate Examn in any of the subjects recognized for matriculation are accepted as equivalent to passes in these subjects at the Matricn. Examn. even though the former examn was not passed as a whole. Provided that the subjects required have been passed, the Univ. accepts the following in lieu of their own Matricn. Examn: the examns. numbered 1, 2 (Parts I. and II), 9, 10, 15 (Higher), and the Scottish Preliminary Examn.

## XXI

### STUDENTS FROM OTHER COUNTRIES IN THE UNIVERSITIES AND UNIVERSITY COLLEGES OF GREAT BRITAIN AND IRELAND (1927-28) \*

From AFRICA 1101, AMERICA 887, ASIA 1826, EUROPE 699, THE PACIFIC 362 Grand total 4875 The number of students from each of the countries which contributed largely to these totals and the names of the institutions which received them in large numbers are given below.

AFRICA *Egypt*—Total 384: at Birmingham 56, Cambridge 20, Leeds 15, Liverpool 27, London colleges 130 (Imperial College 23, School of Economics 17, Medical Schools 37), Manchester 22, Edinburgh 54 *Mauritius*—22 at London 13 *Nigeria and West Africa*.—45. *South Africa and Rhodesia*—638: at Cambridge 94, Liverpool 31,

\* Compiled from lists received from all Universities and University Colleges. A LIST OF NAMES OF STUDENTS FROM ABROAD has been printed, and can be obtained from the Universities Bureau. Many students from other countries study without enrolling in any university or university college. Among them are law students and students in technical schools and research institutes. None of these are included herein.

London colleges 266 (University College 16, Medical schools 138, Schools of Music 46), Oxford 75, Edinburgh 99, Glasgow 27, Dublin 11.

AMERICA. *Canada and Newfoundland*—183: at Cambridge 13, London colleges 72 (Schools of Music 13), Oxford 47, Edinburgh 34. *South America*—72: at Cambridge 14, London colleges 22. *United States*—487: at Cambridge 59, London colleges 128 (University College 30, King's 3, School of Economics 40), Oxford 169, Edinburgh 102. *West Indies*—136: at London colleges 55 (Medical schools 31), Edinburgh 34.

ASIA. *China*—108: at London colleges 59 (School of Economics 21), Edinburgh 22. *India, Burma, and Ceylon*.—1275: at Bristol 19, Cambridge 98, Durham 26, Leeds 33, London colleges 803 (University College 154, King's 89, Imperial 110, School of Economics 84, Oriental Studies 68, Medical Schools 142, Polytechnics 77), Manchester 69, Oxford 66, Sheffield 34, Edinburgh 162, Glasgow 76, St. Andrews 20. *Japan*—85: London colleges 71 (School of Economics 23). *Malaya*—43: London colleges 21. *Palestine*—42: London colleges 19. *Siam*—52: London colleges 17.

EUROPE. *Austria*—18. *Denmark*—19. *France*—61: London 26. *Germany*.—121: London 86 (University College 31, School of Economics 41). *Greece*—26. *Holland*—35: London 19. *Hungary*—27. *Italy*—26. *Latvia*—22. *Norway*—24. *Poland*—40: London 30. *Roumania*—30. *Russia*—56: London 37 (School of Economics 28). *Spain*—32. *Sweden*—18: London 13. *Switzerland*—60: London 41. *Yugoslavia*—15.

THE PACIFIC. *Australia*—234: Cambridge 45, London colleges 105 (Medical schools 53, Schools of Music 21), Oxford 42, Edinburgh 17. *New Zealand*—125: Cambridge 31, London colleges 45, Oxford 26.

ALL COUNTRIES—Birmingham 95, Bristol 47, Cambridge 476, Durham 49, Leeds, Liverpool 124, London colleges 2412 [University College 417, King's 134, Imperial 222, School of Economics 375, Oriental Studies 92, Bedford (women) 46. Medical schools 556, Schools of Music 135], Manchester 171, Oxford 509, Sheffield 57, Edinburgh 653, Glasgow 235, St. Andrews, Dublin 18.

## XXII

## ADMISSION AS UNDERGRADUATES OF THE UNIVERSITIES OF GREAT BRITAIN AND IRELAND OF PERSONS EDUCATED ABROAD

The following notes relate to the admission of students from other countries proposing to take full courses for a First degree, excluding from consideration those who seek admission with advanced standing on the ground of having already pursued courses in other Univs.\* and those who seek only to study without aiming at a degree

A comparison of the regulations of the several Univs in question governing admission of such students discloses a general agreement in principle, with divergencies in application

The regulations are drafted on the understanding that the application to a student educated in another country of the ordinary entrance tests might be inappropriate owing to these tests having been framed with reference to secondary education curricula different from those which obtain in his own country, or to the student having reached a stage in his education at which the passing of ordinary entrance tests would involve a wasteful repetition of preparatory studies. They accordingly provide for the acceptance from such a student of other evidence of academic qualifications. ordinarily certifs which would entitle to admission to a Univ in the student's own country, together with such further evidence as may be necessary to ensure that no student shall be admitted to a course of study for a degree without a reasonable prospect of his being able to pursue it to graduation; in particular, if the student be one whose mother tongue is not English, evidence that he has a sufficient mastery of this language to enable him to follow courses of instruction conducted in English

The lines along which this policy has been applied in the several Univs may be briefly indicated as follows:

At *Oxford and Cambridge* "Responsions" and the "Previous" Examn. respectively take the place of the Matriculation Examn. of other Univs. An *Adviser to Colonial and Foreign Students* is attached to the Univ. Registry at Oxford, and there is an *Adviser to Indian Students* at Cambridge

Exemption may be obtained, not only from Responsions (and also the Examn. in Holy Scripture) or the Previous Examn., but also from the Entrance Examns. of the other Home Univs., by passing the Oxford or Cambridge School Certificate Examns., which are held in various parts of the British Empire overseas.

*Oxford Responsions.* Exemption may be granted to any person who

\* A résumé of Regulations regarding such concessions is given on p. 16.

has obtained (1) a certificate of having passed *either* (a) the matriculation examn. of the Joint Board of the South African Universities, or (b) the Secondary School Certificate Examn. of the Education Dept. of the Transvaal or (Senior Certif) of the Cape Province, provided that it shows that he has obtained at least 60 p.c. in each of two of the languages Latin, Greek, French, German, Italian, Spanish, of which Latin or Greek must be one ; or

(2) a certificate or certificates of having passed one of the following, provided he has satisfied the examiners in two of the said languages, of which Latin or Greek must be one .

Univ. of McGill Matricn. , or First Year in B.A. course , Ontario Educn. Department's Middle School Examn. , Univ. of Toronto Senior Matricn. , or First Year ; Brit. Columbia Sen. Matricn. , Brit. Columbia Jun. Matricn. (60 per cent in each of the two cases) ,

Univ. of Adelaide Public (Leaving) , Univ. of Melbourne School-leaving (Class B) , Univ. of Tasmania Public Leaving , Univ. of W. Australia School-leaving , New South Wales Educn. Department's Leaving Certif. , Univ. of Queensland Sen. Publ. Examn. ,

New Zealand Matricn. or Entrance Scholarship ;

Univ. of Malta Matriculation ,

Univ. of Hong-Kong Senior Local ;

Part I. of the Baccalauréat de l'Enseignement Secondaire in France ; or

(3) A certificate or certificates qualifying him for admission to a univ. in the Republic of Austria, Belgium, the Czecho-Slovakian Republic, Denmark, Finland, France, the German Reich, Holland, Hungary, Italy, Norway,\* Poland, the Serb-Croat-Slovene State, Sweden, or Switzerland, provided it shows that he has satisfied the examiners in either Latin or Greek , also to any person who has obtained the degree of B.A. or B.Sc. at an approved Indian Univ. , provided that his course at his Indian Univ. included the study of English and one of the languages, Latin, Greek, French, German, Sanskrit, Arabic, Persian, Pali, Classical Chinese.

*Cambridge Previous Examn.* Exemption may be granted from the several Parts of the Examn. to a person who (1) has passed the Matricn. Examn. of British Columbia, McGill, Toronto, Adelaide, Melbourne, Queensland, Sydney, Tasmania, W. Australia, New Zealand, any of the Univs. of S. Africa or an examn. affording exemption from, or subsequent to the matricn. examn. in any of these Univs. (see also Appendix XX.), or (ii.) holds a certificate qualifying for admission without further examn. into the Univ. of any European state, or (iii.) holds the Egyptian Govt. secondary education certif. and is not of European parentage, as follows :

(i.) From Part I. if he has passed in 2 languages other than English, one being Latin or Greek, provided that both have been taken on one and the same occasion ;

From Part II. if in either Mathematics or Physics or Chemistry ;

From Part III if in English.

(ii.) From Part I. if he has passed (either in the Examn. in question or in another Univ. Examn. in the same country, certified by the authorities of the Univ. as ranking higher) in 2 languages other than his mother-tongue, of which one is Latin or Greek.

From Part II. if in either Mathematics or Science,

From Part III if in a Modern Language other than that used for exemption from Part I.

(iii.) From Parts II and III. and also, provided that in one at least of the 2 examns. for the certif. he has passed in French, from Part I.

Exemption from the whole of the Examn. may be granted to a student from the U.S.A. who has (1) passed the College Entrance Examination Board's Examn., (2) qualified for admission to one of the undermentioned Univs. or Colleges in the U.S.A. and passed some examn. or examns. conducted by one of them. Provided that the examns. passed cover English (3 units or an equivalent standard), Latin or Greek (4), a third language (3), and Maths. (3).

The following is a list of Univs. approved by the Univ. of Cambridge for the purposes of acceptance of their graduates as *Affiliated Students*, who are exempt from the Previous Examn. (1) In Great Britain and Ireland—all; (2) in Canada—Alberta, Br. Col., Dalh., McGill, Mani., New Bruns., Queen's, Sask., Tor., Western Ontario, (3) in Australia—all, (4) New Zealand, (5) Hong-Kong, (6) in S. Africa—all, (7) in India—All, Bom., Calc., Dacca, Lucknow, Madras, Panj., Patna, Rangoon, \* (8) in U.S.A.—The 36 institutions of complex organization listed in Appendix XXIV, v *infra*. Graduates of St David's College, Lampeter, are likewise accepted.

A candidate who has obtained a 1st class in the Intermediate Examn. in Arts or Science, or a 1st or 2nd class in the examn. for the B.A. or B.Sc. in an approved Indian Univ., is exempted from the Previous Examn. provided that in some examn. leading up to the B.A. or B.Sc. in that Univ. he has passed in Arabic, Persian, Persian-with-Arabic, Sanskrit, or Pali, in Maths. or Science, and in English. Univs. approved for the purposes mentioned in the preceding paragraph are approved with reference to this paragraph also, together with the Univs. of Agra, Andhra, Aligarh, Benares, and Nagpur.

A candidate who has obtained a First Class in the Intermediate Examn. held by the Board of High School and Intermediate Education of the United Provinces of India is exempted if either in this examn. or the High School Examn. which leads up to it he has passed in a classical language, in Maths., in English, and in History or Geography.

A student of non-European descent who has been awarded a scholarship by the Govt. of Palestine for study at Cambridge is exempted if he is a B.A. of the American Univ. of Beirut and if the examns. leading up to his degree include English, Maths., or Science, and one of the languages Greek, Latin, French, German, Arabic, Hebrew.

\* The following Universities are also approved for the purpose of exemption from the previous examn. by certificates. Agra, Alig., Andhra, Ben., and Nag.

*London.* Persons of nineteen years of age and upwards who are not qualified for exemption from matriculation, but who present (a) Certificates of Matriculation in Colonial Univs., or (b) Indian or Foreign Certificates from an Academical or other Educational Authority which in the opinion of the Principal Officer indicate that they have attained a standard *prima facie* involving an education equivalent in their own country to that required for matriculation in England, may apply for examination under Statute 116 instead of entering for the ordinary Matriculation Examination. No candidate is allowed to appear a third time for the Examination, nor a second time, without the express permission of the Board of Examiners.

No foreign certificates, except in the case of graduates of approved Universities, are accepted as giving exemption from the Matriculation Examn, but the following are recognized provided the student passed at one and the same examn in English, Maths, and three other of certain specified subjects, of which one must be Latin or Greek (Cape of Good Hope—Latin) or a Science. Adelaide Matriculation (Senior Public), Melbourne School Leaving, W Australia School Leaving, Transvaal Secondary School Certificate, Secondary School Senior Certificate of the Department of Public Education Cape of Good Hope. London also arranges for the holding of its own ordinary Matriculation Examn in the Colonies and self-governing Dominions upon the application of the local Governments. As regards graduates, see p 107.

The Examination under Statute 116 held in London, usually in March, May, Sept, and Dec, comprises four subjects, of which English and either Mathematics or Logic are compulsory. In every case the candidate is required to undergo a *viva-voce* examn, as well as the written examn, and a sound elementary knowledge of English is necessary. The written portion of the examn lasts one day. The fee is £5 : 5s. No syllabus is published. Applications should be addressed to the External Registrar.

*The Northern (English) Universities Joint Board.* Subject to Special Regulations for Entrance to particular Faculties, exemption from the Matriculation Examn is granted to a student who holds the Secondary Education Certif of the Egyptian Ministry of Education, or has passed the Interm Examn in Arts, Sc, or Med of an approved Indian Univ, and may, at the discretion of the Board, be granted to "applicants holding certifs of having passed examns. of a standard at least equal to" Oxford Responsions, Cambridge Previous, etc. The procedure at Liverpool is as follows: Applications, with references, from Foreign and Indian undergraduate students are receivable up to June 1, from Egyptian up to July 31. In respect of Indian and Egyptian undergraduate students the Students' Dept. of the High Commr. for India and the Egyptian Educational Mission are asked to certify as to the character, qualifications, and suitability of applicants. Leeds receives applications from persons resident outside the United Kingdom up to June 30.

*Durham.* Foreign students may matriculate provided they satisfy a special Committee that they have passed in their own country an

examn. of a standard deemed sufficient for matriculation, and that they have sufficient knowledge of English to profit by the proposed course of study. The Matricn Examns. of the Univ. of Sydney and the Univs. of S. Africa are recognized as exempting from that of Durham.

**Durham Colleges:** Graduates of Univs in the U.K. or of other approved Univs. are admitted without further examn. A candidate educated elsewhere than in Great Britain may matriculate if he has passed examns. deemed by the Matricn. Board to be sufficient. Students in Codrington College, Barbados, and Fourah Bay College, Sierra Leone, may matriculate (and qualify for degrees) locally.

**College of Medicine** A candidate who holds a degree in Arts of a University of the British Empire is accepted as having fulfilled the matriculation requirements

Candidates from a British Colony who present evidence that they have passed an examination which would admit them to a course qualifying for graduation in Medicine in the Colony from which they come will be accepted for Matriculation, provided such examination satisfies the requirements of the General Medical Council for the registration of medical students

The regulations governing the admission of students from India and the Malay States may be obtained from the Dean of the College

**Armstrong College:** Foreign or Colonial students must have passed in their own country an examn. of English matriculation standard in the required subjects, and must have a sufficient knowledge of English to profit by the proposed course of study. In the case of Indian students no examn. lower than the Intern. of an Indian Univ. will be considered for this purpose.

**Bristol.** A candidate educated elsewhere than in the U.K. may submit to the Senate evidence of having passed examns. elsewhere equal to the Matriculation Examn. of any Univ. of the U.K., or to any of the other examns. which qualify for matriculation at Bristol, if from an oriental country, he may submit evidence of previous education in his own country and of ability to follow instruction given in English. The Senate may thereupon, if satisfied with the evidence, declare him eligible for matriculation.

**Reading** Exemption is granted to candidates who have satisfied conditions for exemption from the London or the Northern (English) Univs. Joint Board's Matriculation examn.

**Wales** Candidates who have qualified by examn. for a degree of an approved Univ. or College, or passed the Matriculation Examn. of the South African Univs. or of the Swiss Univs., or the secondary school certifi. examn. of the Transvaal or Cape Province Education Department in the subjects required by the Univ. matricn. regulations, or, if certified by a constituent College as possessing sufficient knowledge of English to profit by a degree scheme of study, the Intermediate Examn. in Arts or Science of an approved Indian Univ., may matriculate without further examn.

**Scottish Universities.** Candidates from the British Dominions or Colonies may be exempted from the Preliminary Examn. if they have

passed examns. which would admit them to a course qualifying for graduation in Arts or Science in Univs. or Technical Colleges affiliated to a Univ. in the Dominion or Colony from which they come, provided their knowledge of English is sufficient to enable them to follow the courses of instruction with profit. Those whose native language is other than English are required to pass an examn., oral and written, including set books. Students from India are subject to the further condition that they have obtained a first class in an Intermediate Examn. in Arts or Science in a recognized Indian Univ., and have at some stage of their course passed in Maths or Science and English.

Certificates which would entitle the holder to enter upon a regular course of study leading to a degree in Arts, Pure Science, or medicine in any of the Univs. or Colleges approved by the Assocn. of American Univs. (see Appendix XXIV.) are recognized for exemption from the Prelim examn.

As regards students from foreign European countries, the B ès L and B ès Sc. and similar "certifs of Maturity or Grades, entitling the holder to enter upon a regular course of study in the Univs. of his own country," are accepted subject to the above-mentioned conditions as to knowledge of the English language. Certain Egyptian, Argentine, and Chinese certifs. are also recognized. Provision is not made specifically for the acceptance of other foreign certifs., but the Board has a general dispensatory power in regard to applicants of not less than 21 years of age who satisfy it as to their fitness.

*N.B.*—In each Univ. the Senatus may for any particular class, attendance on which for a specified period is necessary in order to qualify for graduation, determine the conditions of admission to such qualifying attendance.

A Certificate submitted as proof of title to admission to Univs. abroad should be accompanied by an authenticated declaration by a Government Official or Official of an Agency-General, Embassy, Legation, or Consulate of the country to which the applicant belongs, testifying that it has the alleged value. If in a foreign language, certificates should be accompanied by certified English translations.

*Belfast* Matriculated students of Univs. outside the British Isles may send written statements and certifs. which should, as a rule, cover all subjects required for matricn. in the Faculty concerned. When a certif. in any subject is not available, other evidence of proficiency may be furnished. The Matriculation Examn. of the Joint Matricn. Board of the Univs. of S. Africa and the Intermediate Examns. of certain Indian Univs. (Alig., All., Ben., Bom., Calc., Dacca, Delh., Luck., Madras, Nagpur, Patna, Panjab, Rang.) are accepted as equivalent, subject for subject, to the Belfast Matricn. Examn. Entrants who are graduates of a British Univ. are not required to pass the Matricn. Examn.

*Dublin* admits students who have passed the Matricn. Examn. of any Univ. in S. Africa including English, Mathematics, Latin, and one other approved language. The Senior Lecturer is empowered to exempt from the Matriculation Examn. any student who has passed in the subjects



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required at matriculation at a public examn. which is, in his opinion, of equivalent standard. See, however, p. 663 regarding compulsory subjects in Arts course

*National University of Ireland.* The Senior Public Examns. of Sydney, Melbourne, and Adelaide, the Jaffa Gymnasium Maturité, and the Matricn Examns of Sydney, Melbourne, and New Zealand, and of the Matricn Board of S Africa, are recognized as qualifying for exemption from the Matricn Examn The Matricn Examns of other Univs in the British Empire overseas (excluding India) are recognized only in combination with an Intermediate Examn in Arts or Science.

### XXIII

#### INTER-UNIVERSITY SCHOLARSHIPS AND GRANTS FOR ADVANCED STUDY AND RESEARCH

Under the heading "SCHOLARSHIPS, ETC," will be found in the sections of the Yearbook relating to the several Universities information regarding the extent to which they provide for the promotion of advanced Study and Research by the offer of Scholarships, Fellowships, etc., to their own graduate members In this Appendix are given particulars of some other aids

Agriculture and Fisheries, Ministry of  
Agriculture, College of Estate Management Scholarship in.  
American University and College  
Architecture, Engineering and Naval  
Beit Memorial Fellowships  
Blair Fellowships  
Board of Education Funds  
Bradford Chamber of Commerce.  
British Academy.  
British Association  
British Empire Exhibition  
British School, Athens  
" Rome  
Cancer Research Fund.  
Central Bureau Loan Fund  
City of London Vacation Course  
Cotton-Growing Corporation's  
Daughters of the Empire, Imperial Order.  
Engineering.  
English-Speaking Union  
Exhibition of 1851.  
Federations of University Women.  
Foreign Languages Scholarships.

Free passages to Australia and New Zealand.  
 French University  
 Gilchrist Educational Trust.  
 Govt grants for scientific and industrial research.  
 Grocers' Company.  
 International Federations  
 Johnston Chemical Scholarship  
 Kahn Travelling Fellowships  
 Kitchener Scholarships.  
 Lancs County for students in industry  
 London Chamber of Commerce  
 Marine Biological Association  
 Medical Research Council  
 Ramsay Memorial Fellowships  
 Research.  
     Overseas Dominions.  
     Canada, Australia, and Africa.  
     India  
     International Foundations  
 Royal Commission, 1851  
 Royal Society  
 Salters' Institute  
 Stapley Educational Trust.  
 University and College Funds.  
 Watson Professorship  
 Zoological Society

#### FUNDS ADMINISTERED BY UNIVERSITIES AND COLLEGES

**BIRMINGHAM :** *Bowen Scholarships in Chemistry* (3), *Metallurgy* (1), *and Engineering* (2), £95 each Open to candidates who have spent 3 yrs in a Univ, preferably Birmingham.

*John Avins Science Scholarship* (1), £50 An entrance scholarship, open to candidates who have attended a public elementary school in Birmingham for not less than two years

**CAMBRIDGE :** *Almeric Paget Studentship*, £150, for Polit Sc, Economics, etc, open to graduates of any Univ, or those about to graduate Election after examn (English Essay and questions on Polit. Hist. and Econ) Applications receivable up to July. Student to come into residence at Corpus Christi Coll for the academic year succeeding election

*Fry Scholarship*. £300 for two years, open to a graduate of any Univ in Gt Brit nominated by his Vice-Chancellor

*F W Maitland Memorial Fund*. Grants may be made to any person engaged in any research in the History of Law or of Legal Language or Institutions, or for delivery of lectures, publication of works, etc, connected with these subjects

*Whewell Scholarships* in International Law, one of £100 and one of

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£50, open to all persons whether already members of the Univ. or not who are under 25, tenable for 2 yrs. in the Univ. (at present tenable for 1 yr. only)

*J. L. Walker Studentship* in Pathological research, £300 p.a. for 3 yrs. Candidate need not necessarily be a member of the Univ. Last offered in 1928

*Balfour Studentship* in Biological research, especially in Animal Morphology, £300 p.a. for 3 yrs., student need not be a member of the Univ., but must study in it for at least 3 terms

*Horti Memorial Fund*, £65 p.a., for grants to persons engaged in Biblical, Hellenistic, or Patristic research, or undertaking connected therewith

*Gordon Wigan Fund*, £300 p.a., for scientific educn. or research.

*Worts Fund* for investigations in foreign countries respecting religion, laws, etc., or geographical discovery or antiquarian research therein

*Clare College Research Studentships*, £100 p.a., not more than two at a time, graduate members of any Univ. may be elected, but preference to members of the College

*Emmanuel College Research Studentship* Value £150 p.a., tenable for 2 yrs., with a possibility of renewal. Open to a graduate or other qualified student from another Univ. beginning Research at Cambridge, with a preference to one who has already done one year's research. Applications should reach the Master not later than June 30, and should be supported by two certificates of character, a birth certificate, brief account of career, with names of professors or teachers under whom applicant studied, precise statement of proposed course of research, and any evidence of general ability and of special fitness for proposed research. A studentship of the same value is open to graduates of the College.

Rooms in the College and Commons are assigned to the Lionel de J. Harvard Memorial student nominated by the President of Harvard Univ.

*Pembroke College Gabriel Stokes Studentship* for research in Physics, about £425 p.a. for 3 yrs., renewable for a term not exceeding 5 yrs. Open to graduates (preferably of Cambridge) of from 23 to 28 yrs. of age. Next award, 1930 or later

*Peterhouse Research Studentship* (Abercrombie Smith) (suspended for the time being), £150 p.a. for 2 yrs. Open to graduates of any British or Foreign Univ. intending to proceed to Ph.D. degree

*Trinity College Research Studentship and Dominion and Colonial Exhibitions.* A Studentship of value (dependent on the student's pecuniary circumstances) not exceeding £300 p.a., tenable during preparation for the Ph.D. degree in the Univ. of Cambridge. Open to men who have graduated or are otherwise qualified, provided that they have not commenced residence in the Univ. of Cambridge. Tenure is conditional on entry as Research student and upon diligence in the approved course. Applications with certificates of birth, graduation, and character, record of education, any evidence of aptitude for research, and full account of pecuniary circumstances, should reach the Senr. Tutor not later than July 1.

The *Exhibitions* for students residing in the Dominions and Colonies, annual value of £40, which may be increased by remission of College fees in cases of special need, are tenable for 2 yrs and possibly for 3. Candidates must apply through the principal authority of the Univ. to which they belong. The Univ. authorities, if they think fit to forward an application, the candidate being in their opinion of marked ability and one of whom it may be confidently expected that he will profit by a further period of Univ. study, will send with it certificates of birth and character, record of scholastic career, etc.

*Girton College Research Fellowships* —1 *Arts* (Pfeiffer Fellowship) Tenable for 3 yrs (renewable up to 6 yrs) for research in Language and Lit, Moral and Polit Sc, or History. Open to women who are graduates or have taken Honours in a final degree examn of any Univ, and members of the Girton College Roll (value £250 a yr) 2 *First Girton*, £300 p a

LEEDS: Gas Eng, Textiles, Colour Chem, Arts and Sc

LIVERPOOL: *Garrett International*, *Johnston Colonial*, *Lloyd's Register* v. p 100

LONDON: *Dixon Fund for assisting Scientific Investigations* Income available for grants—about £275. Applications receivable by the Principal between April 1 and May 15. Full information required as to nature and objects of research proposed, estimated amount required for it (detailed estimate to be given), any previous grant received for same object, what apparatus of permanent value will be needed. Names of two referees to be given. Instruments, specimens, etc., purchased out of grants to be returned to the Univ. Published results of researches to refer to the Fund and 10 copies to be supplied to the Univ. Preference given to applicants who are graduates of the Univ. or who undertake to work in a Dept or School of the Univ. or other Instn. connected therewith.

*Charles Graham Medical Research Fund* A Scholarship in Pathology, value not exceeding £400 p a for 2 yrs., is awarded from time to time "to enable a young man to continue his pathological researches, and at the same time to secure his services to the School of Advanced Medical Studies connected with Univ. College Hospl. as a Teacher under the direction of the Prof. of Pathology." Applicants should give names of 3 referees, including a Teacher of the Univ. or College in which he has conducted his studies in Pathology. The Scholar is required to undertake teaching as well as research work.

*Keddey Fletcher-Warr Studentships for Post-Graduation Research in Science* Value £200 for 3 yrs, renewable. Open to men and women of European descent who are graduates of some British Univ or have qualified for such graduation, but preference is given, other things being equal, to a graduate of London of small or no private means. Awardable from time to time as notified in the Public Press.

*Rogers Prize*, £100, offered from time to time, for an Essay on a *Medical* or *Surgical* subject, named and appointed by the Univ. Open to all whose names appear on the Medical Register of the U.K.

*Journalism Exhibitions*. £100 p.a for 2 yrs. Five awarded in 1928.

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*Lindley Studentship.* £120 for work at the Institute of Historical Research. Preference to graduates of Univ. of London or candidates for a higher degree of the Univ. Awarded every third year. Next award in 1931.

*Meyer Studentships* in History and Geography of India. Endowment, £3000, tenable at Univ. College by graduates of Univs. of the British Empire studying for approved higher degrees in the Univ. of London

*Imperial College.* Henry George Plimmer Fellowship in Pathology, £300 Candidates must be of British nationality.

*London School of Economics.* Research Studentship, open to graduates of any Univ., £200. Metcalfe studentship, £90, open to any woman graduate of any Univ. of the United Kingdom Women's studentship, £150, open to women students for research in Economic History Next awards 1929

*Westfield College* (for women). Two research studentships open to graduates of any Univ. Value, £30 and £60 respectively, *plus* free board and lodging at the College (see p. 153). Applications, receivable in the Lent Term for studentship for the ensuing academic year, should be accompanied by a scheme of work, 8 copies of 3 testimonials and names of 2 references

*College of Estate Management*, 35 Lincoln's Inn Fields, W C 2. Traveling scholarship (annual) for studying agricultural methods in Europe, £300 or less. Open to British-born graduates of a British Univ. under 30.

MANCHESTER: *Chemistry, Economics, Engineering, etc*, v p. 190.

MANCHESTER: MUNICIPAL COLLEGE OF TECHNOLOGY Research Scholarships (10) in Technology, £100 each, open to graduates of any Univ. in the British Empire and other persons possessing special qualifications.

OXFORD *Philip Walker Studentship for Research in Pathology.* £200 p. a. for from 1 to 5 yrs., not restricted to members of the Univ., open to women as well as men

*Weldon Memorial Prize* (endowment, £1000), awarded once in 3 years, for contribution in 6 preceding years to *Biometric Science*

*Somerville College* *Mary Somerville Research Fellowship*, £250 for 3 yrs., last award 1928 *Lady Carlisle R F*, £120 for 5 yrs. Next award 1929

*Lady Margaret Hall* *Susette Taylor Annual Fellowship* for independent study abroad Value £150, open to a woman graduate of any Univ.

WALES. *Aberystwyth University College.* Scholarship open to students of the Univ. of Paris.

ROYAL COLLEGE OF PHYSICIANS, London: *Streatfeild Scholarship*, £250 for 3 yrs. for research in Medicine or Surgery.

SCOTTISH UNIVS., v. p. 269.

GLASGOW: *Stevenson Citizenship Fund*, £20,000, established 1921 to provide for instruction, study, inquiry, and research, and thereby to

emphasize the compatibility of civic or local with national patriotism and of both with full and free international co-operation.

BELFAST: *Musgrave Research Studentships*, £200 each, open to British subjects, graduates of at least one year's standing in a Univ. of the British Empire, for research in *Pathology, Biology, Chemistry, Physics, Physiology*. Latest date for applications (10 copies and not more than 2 testimonials as to fitness for research)—July 1.

BRITISH COLUMBIA. Five scholarships of \$1200, each tenable for 3 years at French Univs., were presented in 1924 by the Lieut.-Govr. of the Province.

MCGILL: v. p. 371. QUEEN'S: v p. 402. TORONTO: v. p. 413.

#### FUNDS ADMINISTERED BY THE BOARD OF EDUCATION

*Whitworth Scholarships*. Six of £125 p a for 3 yrs and two of £250 for 2 yrs.; open to British subjects under 22 and 26 years of age, who have been engaged in handicraft in a mech. engineering workshop for at least 30 months; awarded on result of examn held in May. Applications receivable up to Jan 15. Regulations with syllabus obtainable (2d) from H.M. Stationery Office, Kingsway, London.

*Science Scholarships* tenable at Imperial College of Science. Up to 20 Royal Scholarships and 11 Free Studentships awarded annually. Holders entitled to payment of fees by the Board. Royal Scholarship may also include maintenance allowance up to £80 p a. Examn in April-May, open to British subjects. The examn includes drawing and 5 alternative groups of other subjects: (a) Engineering, (b) Physics, (c) Chemistry, (d) Biology, (e) Geology. The number of competitors and the number of awards in each group were: (a) 64, 10; (b) 54, 7; (c) 55, 10; (d) 11, 3; (e) 3, 1. Syllabus obtainable (3d) from H.M. Stationery Office, Kingsway, London.

#### ROBERT BLAIR FELLOWSHIPS IN APPLIED SCIENCE AND TECHNOLOGY

Two awarded annually for advanced study or research in the Dominions, U.S.A., or other foreign countries. £450 each. Open to British subjects at least 21 yrs of age. Preference to students of Engineering Science, and to those who have completed a course of study in London Institutions or been identified with the London teaching service. Applications receivable by the Education Officer, County Hall, London, S.E.1, up to June 18.

#### SCHOLARSHIPS FOR ADULT STUDENTS ENGAGED IN INDUSTRY

The Education Committee of the Lancashire County Council offer Scholarships (1 or 2) of value probably not less than £100 p a for encouraging non-vocational education among adult students fully engaged

## SCHOLARSHIPS AND GRANTS FOR RESEARCH 677

in industry. Age limits, 22 and 40 Evidence required of having devoted leisure time to study in a Univ Tutorial class or in other ways. The Scholarships will be tenable for a year and renewable for a year or two more They are not intended for persons who desire to take ordinary three-year University Courses in Arts, Science, Medicine, or Technology, nor for those wishing to qualify as Teachers in Public Elementary Schools The Scholar will ordinarily be required to devote his whole time to study in a Univ. or other approved institution. Entry forms obtainable from the Director of Educn, County Offices, Preston.

### SCHOLARSHIPS AWARDED BY THE ROYAL COMMISSION FOR THE EXHIBITION OF 1851

I *Science Research Scholarships offered to Overseas Universities*, to enable selected students who have already completed a full University course and given sufficient evidence of capacity for scientific investigations to devote themselves for 2 years to research work under conditions most likely to equip them for practical service in the scientific life of the Empire Value, £250 p a., with supplements in certain cases, tenable ordinarily for 2 yrs, renewable in exceptional cases for a third year, at any institution approved by the Commrs, but not, except in very special circumstances, in the Dominion in which the scholar has received his scientific education; open to British subjects of age (except in very special circumstances) under 26 yrs. At present not less than 8 (Canada 3, Australia 2, S Africa, N Z, and Irish Free State, 1 each) are offered annually, recommendations receivable (South Africa, Irish Free State, May 1) (Australia, N.Z., and Canada, June 1) from the following Univs. Alb, B.C., Dal, McG, Manrit, Queen's (Ont), Sask., Tor, and any of the Univs of Australia, N Z, S Africa, and the Irish Free State. A Scholar is not permitted to hold any position of emolument likely to conflict with the devotion of his whole time to the objects of the Scholarship, nor to accept any additional emoluments without the previous consent of the Commrs

II *Senior Studentships*, at present 5 in number, each of £400 p a with supplements in certain cases, for 2 yrs or, in special cases, for longer, open to British subjects of age not (except in very special circumstances) more than 30 yrs, on recommendation, receivable up to May 1, by Profs and Heads of Depts through the executive authorities of such Institutions as may be invited by the Commrs to nominate, tenable at any Institn at home or abroad approved by the Commrs The student is not permitted to undertake any work likely to conflict with the devotion of his whole time to the objects of the studentship, but a limited amount of time may, with the approval of the Commrs, be spent in delivering an advanced course of lectures. He is not debarred from holding another position of emolument, but in such cases the Commrs may modify the value of the studentship

III. *Post-graduation Scholarship in Naval Architecture*. £250 p.a. for 2 yrs. for research work (for which no emolument will be receivable) in problems connected with design and construction of ships and their machinery and in the development of the shipbuilding industry at

home and abroad. Open to British subjects under 30 who have passed with marked distinction through a course of study and practical training in N.A. at, and been nominated by, the R.N. College, Greenwich, Univ. of Glas or Liv., or Armstrong College. The nominations are reported on by the Council of the Inst N A

IV. *Industrial Bursaries* of not more than £156 p.a. for 1, 2, or, exceptionally, 3 yrs. to cover the period between leaving College and obtaining sufficiently remunerative employment in Industry. Open to British subjects under 25 recommended from one of the Univs. of Gt. Britain, including the Imperial Coll of Sc and Tech, Heriot-Watt Coll, or Univ Coll, Nottingham. A candidate must have been a *bona fide* student of Science for a term of 3 yrs, should give evidence of practical ability likely to lead to his advancement in industrial work, and show that he has obtained, or can within a reasonable period obtain, an industrial post to be approved by the Commrs, and is in need of pecuniary assistance to enable him to hold such a post. Twenty-one bursaries awarded in 1927

V *Rome Scholarship in Architecture*, £250 p a for 2 or 3 yrs. Open to British subjects under 30 by competition conducted by the Faculty of Arch of the School at Rome. A Student or Associate of the R I B A who is placed next in order of merit to the winner will be recommended for the R I B A Jarvis Studentship of £250 p a for 2 years.

*Rome Scholarships in Sculpture and in Decorative Painting*, £250 p a, tenable for 2 or 3 yrs at the British School at Rome. Open to British subjects under 30 and 27 respectively by competition conducted by the Faculties concerned. The Faculty of *Engraving* administers a Scholp of the same value

*General.* Women are eligible for all the Scholps except III and IV. Address of the Secy to the Commrs, 1 Lowther Gardens, Exhibition Rd, London, S.W.7. Entries for the Rome Scholps. are receivable up to October 15 (Architecture), December 31 (Ptg, Sculp, and Engraving) by the Hon General Secy, British School at Rome (same address)

### BEIT MEMORIAL FELLOWSHIPS FOR MEDICAL RESEARCH

Founded in 1909 by Sir Otto Beit, Bart, K.C.M.G., F.R.S., in memory of his brother Alfred, "to promote the advancement by means of research of Medicine and the allied sciences in their relation to Medicine." Open to graduates, men or women, of pure European descent, in any Faculty of a British Univ. Six Junior Fellowships, each of £400 p a more or less and usually tenable for 3 yrs, are awarded in July. An extension to a fourth year at £500 is sometimes granted. Notice of each election is published 3 mos. in advance. Applications are considered by an Advisory Board. Senior Fellowships of £700 p a. tenable for 3 yrs may also be awarded to persons who have already held Junior Fellowships. A Fellowship for Research in *Tropical Medicine*, value £1000 p a. for 5 years, was awarded in March 1927. Special grants have been made from time to time for, or in aid of,



## SCHOLARSHIPS AND GRANTS FOR RESEARCH 679

particular objects of research. Address of Hon. Sec. to the Trust—Sir James K. Fowler, K.C.V.O., C.M.G., 35 Clarges St., Piccadilly, London, W.1.

### BEIT FELLOWSHIPS FOR SCIENTIFIC RESEARCH

Founded by Sir Otto Beit, Bart., K.C.M.G., F.R.S., in 1913 for advancement of Science by means of research. At present £250 p.a. for 2 yrs. subject to report at end of first year. Tenable at Imperial College of Sc. and Tech., London, under supervision of a Prof. Fellows are required to devote their whole time to their research and to hold no appointment, paid or unpaid, without sanction of the Trustees. Open to men or women under 25, of European descent by both parents, who have taken a degree in any Univ. in the British Empire, or Diploma or Associateship of any College approved by the Trustees. Not open to holders of any other Scholarship or Fellowship. Elections, advertised 3 mos. in advance, are made annually in July. Applications should give full information as to qualifications, previous career, general character of proposed research, whether applicant has private means sufficient to carry on the research for 2 yrs. without aid of Fellowship, names of not more than 3 referees, including one on the staff of the Univ. or College or a College of the Univ. at which the degree, etc., was obtained. Testimonials should not be sent. Capacity for research, personal record, and importance of proposed research will be taken into consideration. Inquiries may be addressed to the Rector of the Imperial College.

### GILCHRIST EDUCATIONAL TRUST

Most of the Scholarships, etc., awarded by the Trust are for students of particular institutions. The following are not so restricted:

Scholarship in *Chinese* £50 tenable at the School of Oriental Studies, London, or, in the case of a student of the School of 1 yr.'s standing, in an Oriental country. Open to candidates of European origin. Awarded on results of an examn. held in July in Grammar, 2 set books, and unseen translation. Applications (in a prescribed form) receivable by the Director of the School up to May 15.

Several Scholarships of £30 tenable for 1 yr. in a *Training College for Women*. Open to graduates of a British or other recognized Univ.

Studentship tenable at the *British School at Rome*, £75 for 1 yr. At least 5 months to be spent in Rome. Open to men and women under 25 for a definite course of study for which Rome offers advantages and calculated to assist them in their profession. Applications with statement of previous training and proposed course, copies of not more than 3 recent testimonials based on personal acquaintance with candidate and his work, and any references, should reach the Secy. of the School, 19 Bloomsbury Sq., London, W.C.1, by July 31st.

Studentship in *Geography*. £80 (in special cases, £100) for a definite course of advanced work extending in general over 9 mos., to be approved by the Trustees. No other work to be undertaken without

written consent of the Trustees during the tenure of the Studentship. Open to Teachers of either sex who have had experience in teaching Geog. Applications, stating age, career, training in Geog., experience in teaching Geog., proposed work, time to be devoted to it, name of Headmaster, etc., to whom reference can be made, to reach Prof Lyde, University College, Gower Street, London, W.C.1, by Feb 1. The student is required to sign a declaration of intention to continue to be a teacher of Geog. for 2 yrs. after expiry of the Studentship

*Address of the Secy. to the Trustees:* 1 Plowden Buildings, Temple, London, E.C.4.

### SIR RICHARD STAPLEY EDUCATIONAL TRUST

Constituted in 1919, to administer a fund to assist educational progress by subsidizing necessitous students, promoting educational experiment and research, etc. In 8 years it has assisted over 1000 students at universities. In 1924 the Trust published a report on the scholarship system with special reference to grants by Local Education Authorities entitled "The Poor Student and the Universities" Bursar, Percy Alden, M.A. *Address*—32 Gordon Sq., W.C.1

### FUNDS ADMINISTERED BY THE ROYAL SOCIETY

*Foulerton Research Fund* (a) Research Professorships, with stipend £1400-£1500 p.a. *Duties:* To conduct, in a place approved by the President and Council of the R.S., such original researches in medicine or the contributory sciences, on lines approved of by the President and Council, as shall be calculated to promote the discovery of the causes of disease and the relief of human suffering. The Profs shall devote the whole of their time to research. Tenable for 5 years in the first instance, the appointment being thereafter renewable for further periods of not more than 5 years at a time. (b) Research Studentship of £700 p.a., restricted to British subjects. *Duties:* To conduct researches in medicine or the contributory sciences, under the supervision and control of the Foulerton Committee, to whom the student will be required to report from time to time on the progress of his work. Tenable for 3 years and renewable from year to year, with a maximal total tenure of 6 years from the first award. Incumbents: (a) Prof A.V. Hill, (b) Dr R.J. Ludford

*Yarrow Research Professorships* for research (whole-time) in Math., Physical, Chem., or Engineering Sciences. Value, £1000-£1400 p.a. Tenable at a University or other place to be approved by the President and Council of the Royal Society for a period of 5 years, the appointments being renewable for further successive periods of 5 years. Incumbents: Prof A. Fowler, Prof G.I. Taylor, and Prof O.W. Richardson

*Mackinnon and Moseley Research Studentships.* Each of the value of £300 p.a. Tenable in the first instance for 2 years, but renewable in exceptional cases from year to year, total length of tenure not to exceed 5 years. *Mackinnon Studentship* for "furthering Nat. and Physical Sc., including Geol. and Astron., and . . . original research

## SCHOLARSHIPS AND GRANTS FOR RESEARCH 681

and investigation in Path." *Moseley Studentship* for "the furtherance of experimental research in Path., Physics, and Chem., or other branches of science, but not in Pure Maths., Astron., or any branch of science which aims merely at describing, cataloguing, or systematizing."

*Sorby Research Fund* for original Scientific research. The income, about £600, is devoted to maintaining a Fellowship tenable ordinarily in the Univ. of Sheffield for 5 yrs., renewable for further periods. No permanent duties outside the research work may be undertaken. Appointments are made by a Committee composed of 4 persons appointed by the Council of the R.S. and 3 appointed by the authorities of the Univ. of Sheffield.

For all the above appointments applications are invited by public advertisement.

*Scientific Relief Fund* (income about £700 p.a.) to aid scientific men or their families requiring assistance

*Minor Funds*. Tyndall Mining Research, income about £40 p.a., for a studentship, Gunning, about £35 p.a., Joule, about £70 p.a., Lawrence, about £170 p.a., for research in Diseases in man and animals

*Government Grants for Scientific Investigations*. The conditions are notified annually in time for applications to be received by March 31. Only British subjects are eligible. Appropriations in 1926 numbered 140, the amounts ranging between £10 and £370

*Medals*. Copley, for Philosophical research (any country); Rumford (biennial), for useful discovery in Light or Heat, in any part of Europe, Royal (2), for advancement of Natural Knowledge, Davy, for Discovery in Chemistry in Europe or Anglo-America, Darwin (with grant of £100, biennial), for work in Darwinian field; Buchanan (with money grant, quinquennial), for service to Hygienic Science or Practice; Sylvester (with money grant, triennial), for Mathematical Research, Hughes (with money grant), for discovery in Physical Sciences, particularly Electricity and Magnetism. The 4 last are open to foreigners as well as to British subjects

*Address of the Society*—Burlington House, Piccadilly, London, W.1.

### BRITISH ACADEMY

*Rose Mary Crawshay Prize* for English Literature, £100. Open to women of all nationalities for historical or critical work, preference being given to work regarding Byron, Shelley, or Keats. *Address*—Prof. Sir I. Gollancz, King's College, Strand, London, W.C.2.

*Cromer Greek Prize*, £40. Open to British subjects under 26. *Address*—The Secretary of the British Academy, Burlington Gardens, London, W.1.

### BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

Research Committees of the Association conduct researches and prepare reports. Committees of the Sections consider *inter alia* the

financing of proposed researches by such Research Committees. The Association administers for this purpose a fund, providing an income of about £350 annually, given by the late Sir James Caird of Dundee in 1912; any surplus from subscriptions in excess of administrative expenses are also devoted to research. The Association welcomes the attendance of University students at its annual meetings, and has a special class of "student membership" at reduced fees for duly qualified persons. *Address*—Burlington House, Piccadilly, London, W 1.

### BRITISH SCHOOL AT ROME STUDENTSHIPS

In addition to the scholarships mentioned above on pp 678 and 679 a Studentship (Bernard Webb) worth not less than £250, tenable for one year, is offered for the encouragement of the historical and critical study of Architecture, open to students not over 32 years of age who have been members of the Archit Assocn. for 4 years. The Pelham Studentship in Archæology (£100), awarded by the Univ. of Oxford, is open only to members of that Univ. A Studentship, £150, tenable for 2 years, is open to candidates under 30 years of age, for research in Roman or Italian history, antiquities or literature, and a Gulchrist Studentship, in alternate years, £75, tenable for 1 year, open to candidates under 25 years of age. *Address* of the Secy, 50 Bedford Sq, London, W C 1.

### BRITISH SCHOOL AT ATHENS STUDENTSHIP

A studentship of value £100 tenable for one year is placed at the disposal of the Univs of Oxford and Cambridge alternately. All students admitted to the School are expected to spend at least 3 months in Greece and to be engaged on some research work. They can, on payment of a small rent, reside in the School *Hostel*, and are admitted to use of the library. They also obtain special facilities for working in Museums and in travelling. Students of the British School at Rome are *ipso facto* admitted as students at Athens. *Address* of the Secy, 50 Bedford Sq, London, W C 1.

### MARINE BIOLOGICAL ASSOCIATION

A number of research tables at the Plymouth Laboratory are provided free of cost on the nomination of Governors (among others the Univs of Oxford and Cambridge) and Founders of the Marine Biological Assocn of the United Kingdom. The Ray Lankester Fund provides for the payment of £100 to an Investigator to be appointed from time to time by the trustees on condition of his spending at least 5 months in carrying on researches at the Laboratory. For full particulars application should be made to the Director of the Laboratory, Citadel Hill, Plymouth.

### ZOOLOGICAL SOCIETY'S RESEARCH FELLOWSHIPS

One (Milner) in Comparative Pathology, value £800 p.a., awarded in conjunction with the London School of Hygiene and Trop. Med.

## SCHOLARSHIPS AND GRANTS FOR RESEARCH 683

Fellow in 1925, Dr. H. H. Scott of the London School. One of £350 (Aquarium Research) awarded in 1927 to Miss E. M. Brown of the Univ. of London, and one of £450 (Anatomical Research) awarded in 1927 to Mr S. Zuckermann of the Univ. of Cape Town

### RAMSAY MEMORIAL FELLOWSHIPS

The Trustees (Chairman, Sir Hugh Bell, Bt ; Secy, C. O. G. Douie, University College, Gower St., London, W.C.) award from time to time 3 Fellowships, value £300 a yr. for 2 yrs, for Chemical research. They can be held in any Univ. or other place in the U.K. possessed of the requisite facilities for research; also in exceptional circumstances in other parts of the British Empire, and, by special permission of the Trustees, elsewhere. One is limited to candidates nominated by the Univ. and the Royal Technical College, Glasgow. Fellowships are also provided in connexion with the undermentioned Dominion and Foreign countries. The value is normally £300 a year, but some of the fellowships are of greater value.

### ALBERT KAHN TRAVELLING FELLOWSHIPS

Founded by M. Albert Kahn of Paris "to enable men of proved intellectual attainments to enjoy during one yr. or more sufficient leisure and freedom from all professional pursuits or preoccupations to enter into personal contact with men and countries they might otherwise never have known; to issue from the world of books and their narrow sphere of habitual interests into the broader world of various civilizations, and all such human interests, struggles, and endeavours as go to the making of general civilization." Value originally £660 (namely, £600 for travelling expenses and £60 for books and souvenirs), increased since 1920 to £1000. Open to British subjects, men or women, who have graduated, or qualified for graduation, at a Univ. in the U.K. No age limit is imposed, but preference will probably be given, other things being equal, to persons between 25 and 35. Elections are made not later than May 31 each yr. on nominations made by the Vice-Chancellors of the Univs. in the U.K., or the President of the Royal Society, or the President of the British Academy. Address of the Secy. to the Trustees (F. J. Port, LL.D.), University of London, South Kensington, S.W. 7. Fellow for 1928-29. Prof. R. Peers, M.A., University College, Nottingham.

### EMPIRE COTTON GROWING CORPORATION'S POST-GRADUATION STUDENTSHIPS

In 1928 a maximum of twelve were offered to provide opportunity to men of British nationality, either for additional training in research methods in, or for advanced study of, plant physiology, genetics, mycology, entomology, tropical agriculture, etc. Value £250 each, in addition to tuition fees in the case of those holding their studentships at the Imperial College of Tropical Agriculture, Trinidad, with additional allowances for books and travelling expenses.

## CANCER AND OTHER DISEASES

The *Imperial Cancer Research Fund*, which is under the direction of the R C P London and the R C S England, was constituted in 1902 to promote investigations into all matters bearing on the causes, prevention, and treatment of cancer and malignant disease. It possesses Research Laboratories and a Staff consisting of the Director and 5 Scientific Assistants. It publishes a general report annually and Scientific Reports from time to time. Endowment fund, £160,000. *Address*—8-11 Queen Square, London, W C 1.

The *British Empire Cancer Campaign* was founded in May 1923 to co-ordinate and support research on cancer throughout the Empire. The governing body includes representatives from the Imperial Cancer Research Fund and from each of the principal hospitals with cancer research departments. Chairman, Viscount Cave, G C M G. The Scientific and Advisory Committee of the Campaign is set up jointly with the Royal Society and the Medical Research Council of the Privy Council and the Campaign, and the Radiology Committee of the Medical Research Council, augmented by representatives of the British Empire Cancer Campaign, acts jointly for both bodies. *Address*—Sir Richard Garton, G.B.E., Hon. Secy., 19 Berkeley St., London, W.1

## GROCERS' COMPANY'S SCHOLARSHIPS

Three, £300 each, for 1 yr., renewable for 1 or 2 yrs., for inquiry into Causation of Prevalent Disease or as to means of Prevention of Premature Death. Cost of apparatus, etc., will be defrayed up to £300 in any one year. No other scholarship to be held or remunerative employment undertaken without sanction. Open to British subjects under 35. Applications in prescribed form receivable before April 1 by the Clerk, Grocers' Hall, Princes Street, London, E.C. 2

## ENGINEERING AND NAVAL ARCHITECTURE

THE INSTITUTION OF NAVAL ARCHITECTS, 5 Adelphi Terrace, London, W.C. 2, offered for 1928 scholarships tenable 4 years at Glasgow Univ., 3 years at Armstrong College, Liverpool Univ., R.N. College, and City and Guilds (Engineering) College, London. In Naval Architecture, one of the value of £100 p.a. and one of the value of £130 p.a. Open to British apprentices or students. Two Post-graduation Scholarships in Naval Architecture, candidates to be nominated by above Univs., each for two years, one of £250 p.a. and the other (a part-time scholarship in N.A. or Marine Engineering) £150 p.a.

NORTON AND GREGORY LD., 1 and 2 Castle Lane, Westminster, London, S.W. 1, offer scholarships in Engineering, one of £100 p.a. and one of £50 p.a., tenable for 3 years at any Univ. in the U.K. or British Dominions. Open to candidates domiciled in U.K. aged 17-19. [In abeyance]

THE BRITISH ELECTRICAL AND ALLIED MANUFACTURERS' ASSOCN.,

## SCHOLARSHIPS AND GRANTS FOR RESEARCH 685

36 Kingsway, London, W.C.2, has granted scholarships in Engineering of £100 *plus* college fees to apprentices or students of British birth. The scheme is under revision.

The INSTITUTION OF MINING ENGINEERS awarded a "Mavor and Coulson" travelling graduate scholarship of £300 for 1927-28, and a similar scholarship is offered for 1928-29

### JOHNSTON CHEMICAL SCHOLARSHIP AND PRIZE

Value £150 for 1 yr., awarded on the results of an examn in Chem with Crystallography or Mineralogy, and tenable at Armstrong College involving at least 24 hours per week throughout the session. Open to B Sc of any British Univ of not more than 3 yrs.' standing from graduation Evidence of previous training and ability to conduct an original Chem investigation is required.

### SALTERS' INSTITUTE OF INDUSTRIAL CHEMISTRY

The Institute offers Fellowships to chemists of graduate standing to enable them to undergo a special further training for careers in chemical industry The value of a Fellowship is normally from £250 to £300 The course to be followed by a Fellow will be designed to add to his scientific equipment Further particulars may be had from the Director of the Institute, Salters' Hall, St Swithin's Lane, London, E C 4

### LONDON CHAMBER OF COMMERCE FOREIGN LANGUAGES SCHOLARSHIPS

From the Charles R E Bell Fund two scholarships, value £150 each, will be awarded in 1929 and annually until further notice for continuous residence and language study for not less than 6 months in a foreign European country Open to approved male candidates between 16 and 23 whose parents are natural-born British subjects Candidates must pass the Chamber's Senior examn in English and pass with distinction in one foreign language Commercial Education Dept of the L Ch C, Oxford Court, Cannon St, London, E C 4

### BRADFORD CHAMBER OF COMMERCE FOREIGN LANGUAGES SCHOLARSHIPS

Endowment, £40,000, established Dec 1924, for making grants for maintenance of British-born students (preferably Yorkshiremen) in foreign countries with the view of promoting commerce between England and such foreign countries. Grants are for 6 months' residence, and may be renewed up to 18 months. Holders will be expected to be affiliated to business firms of good standing in the countries they go to. Preference to persons intending to study Spanish or Russian. Application forms (price 1s.) obtainable from the Secretary to the Chamber.

## KITCHENER SCHOLARSHIPS

For Study and Training. Maximum period, 6 yrs.; minimum age, 17. Open to sons of officers and men of H.M. Forces. Value and length of tenure will in each case be such as to enable successful candidates to undertake a complete course of advanced education at any Univ. or other approved institution. Scholarships are offered annually in Jan., conditions being advertised about the middle of the month. The number awarded in 1928 was 101.

Application for full information should be made to the Secy, Lord Kitchener National Memorial Fund, 34 Norfolk St., Strand, London, W.C.2.

IMPERIAL ORDER DAUGHTERS OF THE EMPIRE  
SCHOLARSHIPS

Undergraduate, 36, held in Canadian Univs. by sons and daughters of deceased or totally disabled soldiers and sailors. Graduate, 9, held at Oxford, London, and Liverpool in 1927-28. Address of the Order—Dominion Bank Chambers, 238 Bloor Street East, Toronto.

SCHOLARSHIPS OF THE FELLOWSHIP OF THE BRITISH  
EMPIRE EXHIBITION

The Fellowship is an unincorporated body formed originally to help the Exhibition. At the close of the Exhibition, with the approval of its President, H.R.H. the Prince of Wales, the Fellowship decided to remain in existence and work for Empire trade and the better distribution of the Empire's white population. Owing chiefly to the fact that its administration was carried on by unpaid volunteer workers, it was able to save from its revenue for a Scholarship Fund a sum of nearly £10,000, which was largely increased by grants-in-aid from various sources. The Scholarship Trust of the Fellowship decided to devote a proportion of the Fund to granting sums to the Overseas Dominions to help to send research scholars to the Mother Country. Four of these Scholarships have been already taken up by Canada, New Zealand, India, and Newfoundland. Grants were also made from the Scholarship Fund for various educational purposes. Thus a sum of £500 was devoted to the Imperial College of Tropical Agriculture, West Indies, and was used to equip its laboratories with microscopes.

## CENTRAL BUREAU LOAN FUND

The CENTRAL EMPLOYMENT BUREAU FOR WOMEN AND STUDENTS' CAREERS ASSOCIATION (incorporated), 54 Russell Square, London, W.C.1, has established a loan fund to help educated women who are without the means of training for professional work. No interest is charged. For University Education, Research Work, or technical Training of any kind loans are available. Amount of Fund, £8000.



FREE PASSAGES TO AUSTRALIA AND NEW  
ZEALAND AND BACK

The six chief passenger lines serving Australia and New Zealand place eight first-class return tickets, annually, at the disposal of the Universities Bureau for graduates of the Univs of Great Britain and Ireland who wish to visit these Dominions (a) for the purpose of holding temporary teaching-posts, or (b) for the purpose of prosecuting research work into problems connected with their development and resources. Application must be made to the Bureau by the authorities of the graduate's Univ.

CITY OF LONDON VACATION COURSE SCHOLARSHIP

£300 to enable a teacher, actively engaged in teaching work in any part of Great Britain or Ireland, to proceed to America for some months in order to conduct research work in the field of education of children between 6 and 14. Address the Secy., City of London Vacation Course, Montague House, Russell Sq, W C 1 Donor (1928), Irving T. Bush.

ENGLISH-SPEAKING UNION'S SCHOLARSHIPS

For British Women Teachers. *Page Travelling Scholarship*, £50 and complete hospitality in America during the summer vacation. *Chautauqua Scholarships* (2), for the summer school, July and August, in the State of New York, covering cost of lectures and complete hospitality for 6 weeks. Applications receivable up to March 1 by the E S.U., Dartmouth House, 37 Charles St., Berkeley Sq, London, W.1

SIR GEORGE WATSON CHAIR OF AMERICAN HISTORY,  
LITERATURE AND INSTITUTIONS

Founded by Sir W. G. Watson, Bt., who presented £20,000 for the purpose on the occasion of the return of the Prince of Wales from his American tour. Each year's course will usually comprise about 6 lectures by an eminent authority, American or British. The courses will be given in the various British Univs. in rotation. A general Inaugural Lecture was given in London by the late Viscount Bryce, O M, in July 1921. This has been published in England by the Cambridge Univ Press, together with the lectures of 1922 by Dr. A. T. Hadley (ex-President of Yale); 1923, by Dr Nicholas Murray Butler (President of Columbia Univ), 1924, by Prof. A. F. Pollard (University College, London), 1925, by Sir Robert Falconer (President of Toronto Univ.); 1926, by Dr Robert McElroy (Harold Vyvyan Harmsworth Professor of American History at Oxford Univ), 1927, by Dr Claude H. Van Tyne (Prof of History, Michigan). The Lecturer for 1928 was Dr Reginald Coupland, Beit Professor of Colonial History at Oxford University. The Foundation is administered by the Sulgrave Manor Board, 1 Central Buildings, Westminster, London, S.W.1.

### AMERICAN UNIVERSITY AND COLLEGE SCHOLARSHIPS FOR BRITISH STUDENTS

*Commonwealth Fund Fellowships*, established 1925. Twenty to be awarded annually. Value about £600 each per annum, tenable ordinarily for two years in one of the 26 institutions belonging to the Association of American Universities (see list in Appendix XXIV). Candidates (who must be unmarried and not over 30 years of age) are to be nominated by universities in Great Britain and Ireland, and the final selections will be made by a Committee of Award, of which H.R.H. the Prince of Wales is Honorary Chairman, and Sir Walter R. Buchanan-Riddell, Principal of Hertford College, Oxford, Chairman. The office of the Committee is at 50 Russell Square, London, W.C. 1. Among other conditions of tenure is a requirement that at least 3 months must be spent in travel in the U.S.A. at the close of the first year of study.

*Rose Sidgwick Memorial Fellowship* Established by Americans in memory of a member of the British Educational Mission which visited the U.S.A. in 1918, in recognition of her service in the cause of Anglo-American friendship. Administered by the American Assocn. of University Women. Value \$2000 (providing tuition and residence during term for 1 yr., and about \$400 in cash towards travelling expenses and incidental fees), tenable at any approved College or Univ. in the U.S.A. Open to British women (preferably from 25 to 35 years of age) of graduate standing. This Fellowship will next be awarded in 1930. Particulars may be obtained from the Secy., British Federation of Univ. Women, Crosby Hall, Cheyne Walk, London, S.W. 3.

*Choate Memorial Fellowship*, \$2000, of the Harvard Club of New York City, 27 West 44th Street. Awarded on nomination and recommendation of the Vice-Chancellor of Cambridge to a British subject coming from Camb. to study in any department of Harvard Univ. The Choate Fellow has a right to a room in College free of charge.

*Henry P. Davison Scholarships* (6), \$1500 plus tuition fees (about £50) tenable at Harvard, Yale, and Princeton, for one year. Open to Oxford and Cambridge undergraduates and B.A., unmarried. Scholars are chosen on basis of character, scholarship, and fitness to represent the Univ. No examn. Secretaries: A. L. Goodhart, Corpus Christi College, Cambridge; A. C. Jacobs, Onel College, Oxford.

*Laura Spelman Rockefeller Memorial Fellowships* for research in the social sciences, tenable in U.S.A., France, Germany, Italy, and certain other European countries. Intended primarily for graduates who have begun research and may be expected to produce important work in economics, sociology, political science, history, psychology, or anthropology, or, in certain cases, philosophy, geography, law, or education. Men and women are alike eligible. The regular stipend is \$1800 plus travelling expenses and university fees, but special financial arrangements can be made to meet special needs. Fellowships may be given for one, two, or three years. *Applications are not invited from candidates.* The procedure preferred is that the responsible academic or

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other authority, who knows the candidate's work and wishes to nominate him, should write to the Memorial's representative for Great Britain and Ireland, J. R. M. Butler, Trinity College, Cambridge.

**BRYN MAWR COLLEGE.** Five graduate scholarships for women students living outside the United States and Canada. Value \$1000. (Fees for tuition and, during term only, board and residence during one academic year amount to \$720 approximately) Applications receivable up to April 1

**SMITH COLLEGE, Northampton, Mass.**—Six fellowships, \$600 and tuition, open to women graduates either of Smith College or of other Colleges of equal rank.

**UNION THEOLOGICAL SEMINARY, N Y CITY.** Fellowship in Theol., \$1200, for advanced graduate work Open to theol. students of high grade of England and Wales of any ecclesiastical communion who have completed a regular theol. course. Applications receivable by the Rev. the Principal, Mansfield College, Oxford, or Prof. G. S. Duncan, St. Mary's College, St. Andrews. Latest date, May 31.

**PRINCETON** *Jane Eliza Procter Visiting Fellowships* Three of \$2500 each annually, for 2 British scholars (to be nominated by the Univs of Oxford and Cambridge) and 1 French, tenable for one year, with possibility of renewal, in Princeton Graduate College, for independent advanced study and investigation in purely liberal arts and sciences, exclusive of professional, technical, or commercial subjects, open only to unmarried young men holding a degree in distinctively liberal studies and of reasonably good health, high character, and exceptional scholarly power Applications for an ensuing academic year should be made directly to the Dean of the Graduate School, Princeton, New Jersey, U S A, before March 1

**MICHIGAN** *The Ruggs Foundation* under the auspices of the English-Speaking Union. Fellowships for British graduates. \$1200 each, tenable in the Univ of Michigan, one year Preference to students of History and Economics. The Associate-Director, American University Union, 50 Russell Sq, London, W.C 1, is Secretary to the Selection Committee

Many American Universities having "Graduate Schools" offer Research Scholarships and Fellowships of from \$300 to \$2000 p.a. which are ordinarily open to Foreign as well as to American students Nearly all the American Univs other than State Univs., and a few of the latter, offer each year fellowships of from \$200 to \$800 which are open to Foreign students Most American Univs. close their scholarship lists about March 1 The Institute of International Education (2 West 45th St, New York) publishes lists of fellowships, etc., offered to Americans for study abroad and *vice versa*. These may be seen at the American University Union, 50 Russell Sq., London, W.C.1.

A tentative plan for the establishment of fellowships for British subjects in American Univs which was formulated by President Frank Aydelotte of Swarthmore College, American Secretary of the Rhodes

Scholarship Trust, in 1922, has, in the main, been realized in the Laura Spelman Rockefeller and Commonwealth Fund Fellowships.

### FRENCH UNIVERSITY SCHOLARSHIPS

A scholarship of 8000 fr., open to Australians for undergraduate or graduate work. Office National des Universités et Écoles Françaises, 96 Bd. Raspail, Paris (6<sup>e</sup>)

"La Bienvenue Française," 19 Rue du Four, founded in 1921, offers every scholastic year hospitality to one student of science of each of the following nationalities French, British, Belgian, Italian, Czecho-Slovakian, American, Spanish, at the "Fondation Thors," Castle of Prunay, Louveciennes, Seine-et-Oise

### INTERNATIONAL FELLOWSHIPS, ETC., OF FEDERATIONS OF UNIVERSITY WOMEN

The International Federation of University Women is raising funds for Travelling Fellowships for women graduates of all countries, to be available for a year's research work in some country other than that of the holder. The first, for scientific research, was awarded in 1928. A research fellowship in Arts will be awarded in 1929. Value £250

The American Assocn. of University Women offers \$1500 annually to enable a member of the International Federation of University Women to carry on a year's research in some country other than her own

The Canadian Federation has founded a Scholarship enabling a woman graduate of a Canadian Univ. to study at a Univ. of any other country represented in the International Federation.

The Spanish Federation offers a Fellowship of 4000 pesetas tenable for study in Madrid during the year 1928-29, and open to members of the International Federation

Information about all the above Fellowships may be obtained from the Secretary, International Federation of University Women, Crosby Hall, Cheyne Walk, London, S W 3

### GOVERNMENT GRANTS FOR SCIENTIFIC AND INDUSTRIAL RESEARCH

The total expenditure estimated for 1928 of the DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH was £739,506. This included headquarters administration, £31,533; Geological Survey and Museum of Practical Geology, £68,530; and various research programmes, £496,591

Grants to individual research workers (£30,000) are made on recommendations by individual professors. During 1927-28 the Department made 148 allowances to students for training in research in Univs. and Colleges, 28 grants to research workers to undertake independent research or act as scientific assistants to investigators of standing, 5 grants to scientific workers to enable them to employ laboratory or

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clerical assistants or to purchase equipment. The system is intended to supplement and not in any way to supersede existing provision, national or local, for post-graduate research. Particulars of these grants will be found in the pamphlet, *Notes on the Grants to Research Workers and Students*, price 2d, from any bookseller.

In July 1928 the number of Industrial Research Associations recognized by the Department and in operation was 24. Particulars of them and of Research Stations under the Department are given in Appendix XXVI.

Developments in the organization of industrial research in the Overseas Dominions are described in an Appendix to the Annual Report of the Department for 1926-27.

The IMPERIAL INSTITUTE, with which the *Imperial Mineral Resources Bureau* was amalgamated in 1925, has technical laboratories and workshops, and is organized to supply technical information dealing with raw materials of all kinds and the mineral resources of the Empire. It is under the statutory control of the Department of Overseas Trade. Further particulars are given in Appendix XXVI.

### MINISTRY OF AGRICULTURE AND FISHERIES AND DEVELOPMENT COMMISSION

GRANTS FOR AGRICULTURAL (AND VETERINARY) RESEARCH. For some few years past the Ministry has awarded annually Research Scholarships (£200 p a for 3 yrs) to assist promising students—usually honours graduates in Science of a British Univ—to qualify as research workers. In 1927, 6 were awarded to students of Cambridge, Liverpool, and Glasgow Universities. In 1921 the Ministry instituted Travelling Research Fellowships for members of staffs of aided research institutions. In 1927, 9 were awarded to members of the staffs at Aberystwyth, Bangor, Cambridge, Leeds, Oxford, and the Rothamsted Research Station.

The Ministry has allocated (with a view to the concentration at one institution or at institutions working in combination of the scientific work in each of certain definite groups of subjects) grants-in-aid for the maintenance of research departments of institutions as follows: *Agr. Engineering*—Oxford Univ., *Agr. Parasitology*—London School of Hygiene and Tropical Medicine, *Fruit-growing*—Bristol Univ., East Malling Research Station (near Maidstone), *Animal Nutrition*—Cambridge Univ., *Plant-breeding*—Cambridge Univ., University College of Wales, Aberystwyth; *Plant Physiology*—Imperial College of Science, *Economics of Agr.*—Oxford Univ.; *Dairying*—Reading Univ., *Plant Nutrition and Soil Problems and Plant Pathology*—Rothamsted Experimental Station, Harpenden, Herts, *Crop Improvement and Seed and Potato Testing*—Nat. Inst. of Agr. Botany, Cambridge, *Animal Pathology*—Royal Vet. College, Camden Town, London, N.W.1, Cambridge Univ., and the Ministry's Vet. Laboratory, Addlestone, Weybridge; *Small Animal Breeding*—Cambridge Univ.; *Glasshouse Culture*—Cheshunt Experimental Station.

In addition to the above, grants are made for research in Bee-culture to Rothamsted Exptl. Station, Silver-leaf disease research to Camb. Univ., Testing new varieties of fruit trees to Royal Hortic. Soc.

A grant has also been made to enable the Agr. Depts. of the following institutions to supplement in cases calling for special scientific knowledge and training the advice usually given by members of the county Agr. Staffs: Armstrong Coll., Bristol, Cambridge, Leeds, Manchester, and Reading Univs., Aberystwyth, Bangor and Cardiff Univ. Colleges, S. Eastern (Wye), Harper-Adams (Newport), Midland (Sutton-Bonington, Notts.), and Seale-Hayne (Newton-Abbot) Agr. Colleges. Grant for 1926-27, £60,400.

Special research grants amounting in the aggregate to £2785 for work in 1927-28 were made to Cambridge, Liverpool, Manchester, Reading, and Oxford Univs., East Malling Research Station, Harper Adams, S. Eastern Agr. (Wye), and Bangor Colleges.

In a leaflet (197) issued by the Ministry in Sept. 1920 (revised November 1925) information is given regarding some of the above-mentioned grants and generally regarding Agr. Education and Research in England and Wales. V. also Appendix XXVI.

**FISHERY RESEARCH.** Researches likely to lead to results bearing on the development and improvement of fisheries are eligible for advances from the Development Fund as follows: 1. *Grants-in-aid of the general work of Independent Marine Institutions*, to aid fundamental researches forming part of the Institution's continuous programme of work.

2. *Grants for Specific Researches* (a) Directed to definite economic ends of use to the Fishing Industry, or (b) "Free" researches. The Development Commrs. will also be prepared to consider applications for additional grants for temporary assistants and for apparatus, etc., to enable members of the staff of a Marine Institution to prosecute special lines of inquiry.

The amount provided in the Ministry's estimates for 1927-28 for grants under 2 (a) was £1275.

Detailed information regarding the promotion of Agricultural education and research is contained in the annual reports of the DEVELOPMENT COMMISSIONERS (6A Dean's Yard, Westminster, London, S.W. 1), obtainable from H.M. Stationery Office.

**COLONIAL AGRICULTURAL SCHOLARSHIPS.** About 20 scholarships, usually tenable for two years, of the value of £250 p.a., will be offered annually between 1925 and 1933, (a) for Agricultural Research, (b) for General Agriculture. Candidates for (a) scholarships should hold an Honours degree in Pure Science, and for (b) a degree in Natural Science or Agriculture. Scholarship holders will spend part of their course at the Imperial College of Tropical Agriculture in Trinidad, or some similar Institution. On completing their course they may be selected for appointment to the Colonial Agricultural Service. For further particulars application should be made to the Private Secretary (Appointments) to the Secretary of State for the Colonies, 2 Richmond Terrace, Whitehall, S.W. 1.

### MEDICAL RESEARCH COUNCIL

The Medical Research Council (38 Old Queen St., Westminster, S.W. 1), formerly the Medical Research Committee established in 1913 under the Nat. Health Insurance Act, are now under the direction of a Committee of the Privy Council. They apply money voted by Parliament or received from private sources for the furtherance of medical research. Grants are made to qualified investigators in respect of approved programmes of research work to be carried out in Univs., Medical Schools, Hospitals, or other institutions. Names of recipients and accounts of the schemes of research supported are given in the Council's Annual Reports published by H.M. Stationery Office. Grants may be either personal, *i.e.* to provide remuneration in respect of whole-time or part-time work devoted to particular subjects approved by the Council, or for expenses necessarily incurred in the prosecution of the approved researches. Rockefeller Medical Fellowships tenable in the U.S.A. are also provided for graduates in medicine or related branches of science for 1927-28 seven were awarded.

### EMPIRE MARKETING BOARD

The Empire Marketing Board was set up in 1926 to advise the Secretary of State for Dominion Affairs in the administration of an annual Parliamentary Vote for the furtherance of the marketing of Empire produce (including home agricultural produce) in the United Kingdom. The main activities of the Board are in the fields of scientific research, economic investigation, and publicity. Many grants for scientific research have been made to institutions both at home and overseas. *Address*—2 Queen Anne's Gate Bldgs., Dartmouth St., S.W. 1

At SINGAPORE is an Epidemiological Information Bureau established by the League of Nations with the support of the Rockefeller Foundation. It receives annual subsidies from several Governments. *Address*—League of Nations, Health Section, Eastern Bureau, 134 Robinson Rd., Singapore.

### RESEARCH IN CANADA, AUSTRALIA, AND AFRICA

**CANADA** The Government of Canada in 1916 constituted the Honorary Advisory Council for Scientific and Industrial Research, now known under the short title—"National Research Council," consisting of 15 scientists and business men, all of whom, excepting the President of the Council, serve on an honorary basis. This Council has engaged in three major activities. 1st, the co-ordination of research work and the organization of co-operative investigations, 2nd, the post-graduation training of research workers, 3rd, the prosecution of research work through assisted research grants. Expenditure in 1927-28, \$201,672.63, including \$41,855.00 for scholarships and \$108,163.28 for assisted researches.

During the 1928 session of Parliament, the vote for the current expenses of the Council was increased to \$300,000, and in addition an appropriation of \$750,000 was provided for the erection of the first unit of National Research Laboratories under the control and direction of the Council

**AUSTRALIA.** The *National Research Council* was founded in 1921 to represent Australia in the International Research Council, and also serves as a national academy of pure and applied science (all branches)

The *Commonwealth Council for Scientific and Industrial Research* was established by the Science and Industry Research Act, 1926, and has taken the place of the former Institute of Science and Industry, which was constituted in 1921, and had succeeded a temporary Advisory Council of Science and Industry which was created in 1916. The Council consists of 3 nominees of the Commonwealth Government, the Chairman of each State Committee constituted by the Act, and other persons co-opted for their scientific knowledge. Its main functions are (a) to carry out scientific researches in connexion with the primary and secondary industries of Australia, (b) to train research workers, (c) to make grants in aid of pure scientific research, (d) to carry out the testing and standardization of scientific instruments and apparatus, and (e) to act as a means of liaison between the Commonwealth and other countries in matters of scientific research. In the formation of the Council, the Government made a grant to it of a sum of £250,000 for research work and investigations for an unspecified period. A like sum was made available to the Council by the Government two years later. The Council has decided to concentrate efforts mainly on 5 major branches, viz (a) plant problems, (b) animal problems, (c) forest products, (d) fuel problems (especially liquid fuels), and (e) preservation of foodstuffs, especially cold storage. Already Divisions of Economic Entomology, of Economic Botany, of Animal Nutrition, and of Forest Productions have been organized, and several investigators are occupied on investigations of various animal diseases. The organization is proceeding of work on cold storage and in fuels. The Council is working in close co-operation with the State Government Departments, the Universities, and other institutions. It is also co-operating with the British Department for Scientific and Industrial Research.

Under the Science and Industry Endowment Act, 1926, the Commonwealth Government has established a capital fund, the income from which is to be used to provide assistance (a) to persons engaged in scientific research, and (b) in the training of students in scientific research (*Chief Executive Officer*, Dr A. C. D. Rivett, M.A., D.Sc., *Secretary*, Gerald Lightfoot, M.A., 314 Albert Street, East Melbourne).

The *Australian Institute of Tropical Medicine*, Townsville, North Queensland, is under the control of the Commonwealth Department of Health. The staff, consisting of a Director, 4 medical officers, and an entomologist with technical assistants, etc., perform educational and diagnostic as well as investigational functions.

The NEW ZEALAND Institute, established in 1867, controls 2 funds



which are available for grants to aid scientific workers: the Government Research Grant Fund and Hutton Memorial Fund. It also controls 3 Memorial Funds from which prizes are awarded at intervals for distinguished scientific work. It publishes annually its *Transactions and Proceedings*. The Cawthron Institute of Scientific Research at Nelson concerns itself specially with agriculture and fruit-growing. The State Forest Service conducts experiments in regard to the value of the Dominion's timbers.

**SOUTH AFRICA** The Research Grant Board of the Union of South Africa was instituted in 1918. The principal functions of the Board are to advise the Government generally regarding the encouragement of Research in the Union and to administer all Government Grants-in-Aid of Research. It is also the body through which the Union of South Africa is affiliated to the International Research Council, and its organization is further utilized for the award and administration of the Government Industries and Commerce Overseas Scholarships.

The Board is attached to the Department of Mines and Industries, and reports to the Minister for Mines and Industries and the Minister for Education.

*Research Scholarships and Grants.* The recipients of the scholarships are mostly University Graduates who are undertaking research for the first time under the supervision of their professors, while the grants are awarded to members of the staffs of the Universities and Museums, besides others, who have generally a considerable amount of research to their credit. The grants are made to defray such necessary expenses as the purchase of apparatus, material, and literature, travelling expenses, and the cost of publication of the results of research. The scholarships differ further from the grants in including subsistence during the period of research.

*Oversea Scholarships for Study of Commerce and Industries.* These scholarships are of the value of £250 per annum for periods of two or three years. Since its inception the Board has allotted twenty-nine scholarships, one hundred and sixty grants-in-aid of research, and six oversea industries scholarships.

*Carnegie Corporation of New York.* The Board, on the invitation of the Carnegie Corporation, is assisting in the distribution and administration of funds contributed by the Corporation in support of research in South Africa. The programme is for a period of five years, and includes, in addition to grants for research purposes, travelling allowances for men and women based on the plan of the Guggenheim Fellowships of the United States of America. The Board, at the request of the Carnegie Corporation, is also collaborating with the Dutch Reformed Church in research in connection with the "Poor White" problem of the Union.

**SUDAN.** Opposite the School of Medicine, Khartoum, are established the Wellcome Tropical Research Laboratories, where research and a large number of routine examinations are carried out by Government Bacteriologists, Chemists, and Entomologists.

## RESEARCH IN INDIA

Under the new Constitution the development of industries is a Provincial transferred subject and the Government policy in regard to research work is to a large extent determined provincially. The *Indian Institute of Science*, Bangalore, is concerned with the application of science to industry and agriculture (v section), the practical side of research work conducted there has been developed in recent years. There are *Research Institutes* at Pusa (Agricultural, dealing with problems of general or all-India importance in the various sections of Botany, Chemistry, Bacteriology, etc.), Dehra Dun (Forestry), and Cawnpore (General Applied Chemistry, Vegetable Oils, Leather, and Tinctorial Chemistry). The *Royal Institute of Science*, Bombay, is designed to conduct undergraduate teaching side by side with post-graduate research in the Departments of Chemistry, Physics, and Biology. The *Central Cotton Committee's Technological Research Laboratory*, Matunga, Bombay, opened in Dec 1924, is for research work on cotton problems, testing of cotton yarns, and chemical examination of cotton sent for trial. In addition, the Committee places grants, in-aid at the disposal of Provincial Departments of Agriculture, at the research work on cotton, and is contributing to the expenses of the new *Institute of Plant Industries* at Indore. At the *Imperial Institute of Veterinary Research*, Muktesar, research activities in cattle diseases have been developed on an unprecedented scale. A *School of Mines and Geology* has been opened at Dhanbad, and a project is in hand for a *Forest Research Institute* in Burma. In addition there is a *Research Tannery* at Calcutta, and an *Imperial Research Laboratory* in Bengal is contemplated. The *Indian Lac Association for Research* is financed by a cess on the exports of lac, and employs the funds so received on research work connected with the cultivation of lac and the manufacture of shellac. The Research Station is situated in Ranchi. The *Sir J. C. Bose Research Institute*, Calcutta, founded in 1917, is concerned especially with Plant Biology. Its position has been consolidated by an annual grant from the revenues of the Govt of India of Rs 103,000. The Indian Association for the Cultivation of Science, Calcutta, also receives a grant of Rs 20,000 a year from the Government of India.

*Medical research* is systematically arranged for by the Government of India, either directly or through local Governments, at central or provincial institutions. The chief of these are the Central Research Institute, Kasauli, the School of Tropical Medicine and Hygiene, Calcutta, the Haffkine Institute, Bombay, the King Institute of Preventive Medicine, Madras, King Edward VII Memorial Pasteur Institute, Shillong, and the Pasteur Institutes at Kasauli, Coonoor, and Rangoon. The *Indian Research Fund Association*, which receives its income from grants by the Government of India, assists in financing enquiries based on all these institutions, and employs not only Indian Medical Service Officers but also workers outside the Services in attempting to elucidate the various tropical disease problems which are most urgent. The avowed objects of the Association are the prosecution and assistance of medical research, the propagation of

knowledge and experimental measures generally in connexion with the causation, mode of spread, and prevention of diseases, primarily those of a communicable nature. All proposals for research under the Association are examined by the *Scientific Advisory Board*, which consists of experts chosen from the Research Institutes of the country as well as from the central medical administration. This Committee is thus able, not only to assess the value of proposals, but also to co-ordinate and prevent overlapping, and it is largely on its recommendations that the grants from the Association are made. Apart from grants-in-aid to teachers, bureaux, and publications, it has financed numerous researches, the selected results of which are published quarterly in the *Indian Journal of Medical Research* and its Memoirs.

### INTERNATIONAL FOUNDATIONS AND ORGANIZATIONS FOR RESEARCH

FONDATION UNIVERSITAIRE, 11 rue d'Egmont, Brussels, founded in 1920 with a capital of 55 million francs derived from the unexpended balance of the funds of the Commission for Relief in Belgium, aims (1) at helping impecunious young Belgians to take courses in Institutions for higher education and (2) at developing scientific production in Belgium. It makes loans for the first purpose and grants and subsidies for the second. In the year 1927-28 its loans for University study amounted to 1,084,750 francs, its subsidies to 983,420 francs. The subsidies included grants for study to be carried on, in European Univs, for training in Scientific Research, for research workers, and for scientific publications. Grants for study in American Universities were made to 10 Belgian graduates, and grants for study in Belgian Universities to 3 Americans. The Foundation arranges exchange visits of Professors. A club-house was established at 11 rue d'Egmont in 1922 for Belgian Univ Professors. It is open also to foreign professors invited by members of the club. It has lodging accommodation.

ELLEN RICHARDS RESEARCH PRIZE, \$1000, for a thesis written in *English by a woman* on a scientific subject. Latest date, Feb. 28. Particulars obtainable from Dr Lillian Welsh, Goucher College, Baltimore, Md., U.S.A.

NOBEL PRIZES, founded by Alfred Nobel, who died in 1896, awarded for contributions to the common good by workers in (a) Physics, (b) Chemistry, (c) Medicine or Physiology, (d) Literature, (e) the Preservation of Peace. The prizes, worth from Kr. 115,000 to Kr. 150,000 each, are awarded for (a) and (b) by the Swedish Academy of Science, for (c) by the Stockholm Faculty of Medicine, for (d) by the Swedish Academy of Literature, and for (e) by a committee elected by the Norwegian Storting. Among the categories of persons qualified for candidature for prize (e) are University Professors of Political Science and Law, of History, and of Philosophy. Particulars can be obtained from Nobelstiftelsens Styrelse, Sturegatan 14, Stockholm, Sweden. Among prize-winners of past years the following have a special interest for English-speaking students: (a) 1904, Lord Rayleigh; 1906, J. J.

Thomson ; 1907, A. A. Michelson ; 1915, W. H. Bragg and W. L. Bragg ; 1917, Ch. G. Barkla ; 1923, R. A. Millikan ; (b) 1904, Sir Wm. Ramsay ; 1908, E. Rutherford ; 1914, T. W. Richards ; 1922, F. Soddy, F. W. Aston ; (c) 1902, Sir Ronald Ross ; 1912, Alexis Carrel ; 1922, A. V. Hill ; 1923, F. G. Banting and J. J. R. Macleod ; (d) 1907, Rudyard Kipling ; 1913, Rabindranath Tagore ; 1923, W. B. Yeats ; 1926, G. B. Shaw ; (e) 1903, Sir W. R. Cremer ; 1906, Theodore Roosevelt ; 1912, Elihu Root , 1919, W. Wilson , 1926, Sir Austen Chamberlain and General Ch. G. Dawes , 1927, A. H. Compton and C. T. R. Wilson

FONDATION GEORGE MONTEFIORE offers triennially a prize of the value of 22,000 francs " au meilleur travail original présenté sur l'avancement scientifique et sur les progrès dans les applications techniques de l'électricité dans tous les domaines, à l'exclusion des ouvrages de vulgarisation ou de simple compilation " Secrétaire-archiviste de la Fondation George Montefiore à l'hôtel de l'Association, rue Saint-Gilles 31, Liège (Belgique)

VISSER INTERNATIONAL LAW PRIZE (triennial). Administered by Leyden Univ. (Legatum Visserianum). 5000 guilders. Next competition, May 1930, subject—Unlawful Acts of States, language—Dutch, English, French, or German

PRIX HOLLANDAIS, 10,000 fr, and Prix d'Ault du Mesnil, 1800 fr, for work in physical or prehistoric anthropology, triennially, beginning 1930 Institut International d'Anthropologie, 15 rue de l'École de Médecine, Paris, vi

INTERNATIONAL RESEARCH COUNCIL, Palais des Académies, Brussels General Secretary—Sir Arthur Schuster, Royal Society, Burlington House, W 1 This body has been constituted with effect from Jan 1, 1920, in pursuance of a resolution adopted in Nov 1918 at a Conference in Paris at which the principal Allied Academies were represented Under the auspices of the Council, *International Unions* have been formed for Astronomy, Geodesy and Geophysics, Pure and Applied Chemistry, Mathematics, Physics, Radio-Telegraphy, Biological Sciences, and Geography

UNION ACADÉMIQUE INTERNATIONALE (for co-operation in the advancement of studies by means of collective researches and publications in the fields of Archaeology, History, Philology, and Moral, Political, and Social Science) The Union was constituted in 1919 on the initiative of the Académie des Inscriptions et Belles-Lettres Its address is Palais des Académies, Bruxelles. The British Academy is affiliated to it.

MODERN HUMANITIES RESEARCH ASSOCIATION, founded at Cambridge, June 1, 1918, for the encouragement of advanced study in Modern Languages and Literatures by co-operation Has 62 correspondents and about 800 members Press organ : *Modern Language Review*, quarterly, 7s Hon Secy : Prof. E. Allison Peers, The University, Liverpool. Hon Treasurer : L. C. Maxtin, The University, Liverpool Sub-Secy for America : Prof. A. H. Nason, Box 84, University Heights, New York City, U S A

## XXIV

## FEDERATIONS AND FOREIGN UNIVERSITIES

*[From 1921 to 1925 inclusive the Yearbook contained in this appendix brief notes concerning the principal foreign universities. It has been decided, in view of the publication by the National Union of Scottish Students of a new HANDBOOK ON FOREIGN STUDY, to discontinue these notes for the present, with the exception of the accounts of universities in the United States, which are retained on account of the great increase that has recently taken place in the number of scholarships for British students tenable in that country]*

The LEAGUE OF NATIONS COMMITTEE ON INTELLECTUAL CO-OPERATION has entrusted to the University Relations Section of the *International Institute of Intellectual Co-operation* (2 Rue de Montpensier, Paris I) the production of the *Bulletin for University Relations* formerly issued by it at Geneva. Annual subs. (6 Nos.), 10s., payable to the publishers, Les Presses Universitaires de France, 49 Boulevard Saint-Michel, Paris V. The University Relations Section organizes annually conferences of the directors of National University Offices and of the representatives of International Associations of Students.

The CONFÉDÉRATION INTERNATIONALE DES ÉTUDIANTS was formed at Strasbourg in 1919 by official representatives of the National Unions of Students of Belgium, Czecho-Slovakia, France, Luxembourg, Poland, Roumania, and Spain, and unofficial representatives of students of 10 other countries—Denmark, England, Greece, Holland, Italy, Norway, Sweden, Switzerland, U.S.A., and Yugoslavia—which had, at that time, no national unions. The Council of the CIE met at Brussels in 1920 to organize the first Congress, which was held at Prague in 1921. At this Congress National Unions of England and Wales, Finland, Holland, Norway, Scotland, Switzerland, Sweden, and Yugoslavia were admitted as full members, and a representative of emigrant students from Ukraine as an unofficial member. The Council met again at The Hague and at Oxford in 1923, and the Second Congress took place at Warsaw in Sept. 1924, when the National Unions of Bulgaria, Esthonia, Hungary, Lithuania, and Turkey were admitted as full members, and the following as unofficial members: National unions of New Zealand and South Africa and "Oreso" (association of Russian emigrant students), and representatives of students of Georgia and of Hong-Kong; and it was decided to collaborate effectively with the national union of German students (Deutschestudentenschaft). In 1926, at the Council's meeting in Prague, the Algemeene Senaten Vergadering of the students' senates of Holland was admitted as a member, the association of White Ruthenian students as a free member, and the general association of Latin-American students in Paris as

associated member. The confederation aims at promoting friendship between students and student bodies throughout the world and the study of international questions relative to higher education and the conditions of student life. The central office is at Brussels. Administrateur—J. Baugniet, Dr. Jur. Avocat, 82 Avenue Molière. Director of Commissions—I. S. Macadam, N U S, 3 Endsleigh Street, London, W C 1.

The INTERNATIONAL FEDERATION OF UNIVERSITY WOMEN was founded in 1920 "to promote understanding and friendship between the university women of the nations of the world, and thereby to further their interests and develop between their countries sympathy and mutual helpfulness." It has branches in thirty countries. The Federation assists travelling members by providing introductions, and by the establishment of club-houses in such centres as Paris, London, Brussels, Rome, New York, Washington, Philadelphia. It provides travelling fellowships for women graduates (v. Appendix XXIII.), and promotes the exchange of university and secondary school teachers between different countries. Officers (1926-29). *President*, Docent Ellen Gleditsch, Univ. of Oslo; *Vice-Presidents*, Prof. Winifred Cullis, Univ. of London, Me. N. Schreiber-Favre of Geneva, Prof. J. Westerdyk, Univ. of Utrecht; *Treasurer*, Mrs. Thomas R. White, Philadelphia; *Secretary*, Miss Theodora Bosanquet, Cheyne Walk, S W 3. International Conferences are held triennially. The next Conference will be held in Geneva in 1929. Crosby Hall was opened by the British Federation of Univ. Women as a London residence for women graduates of all countries, at Easter 1927. The residence is intended primarily for graduate students carrying on research or other advanced work in London. Application for accommodation should be made to the Warden, Crosby Hall, London, S W 3.

The WORLD'S STUDENT CHRISTIAN FEDERATION is a federation of the national Student Christian Movements of over forty countries, which has a membership of some 300,000. Publications: *The Student World* (quarterly), a *Directory and Exchange List*, and a *List of Foyers and Student Hostels* (annual). Offices: 13 Rue Calvin, Geneva.

The STUDENT CHRISTIAN MOVEMENT of Great Britain and Ireland is the British Branch of the Federation. Publications: *The Student Movement* (monthly during term). Offices: Annandale, North End Road, Golders Green, London, N W 11.

The UNIVERSITIES LIBRARY FOR CENTRAL EUROPE was established towards the end of 1920 in order to co-ordinate and consolidate the work of securing (by gifts, exchange, and purchase) British books, journals, etc., for students, teachers, and libraries in the Universities of Central Europe. In conjunction with the League of Nations it has undertaken to accept literature from other countries for distribution anywhere in the United Kingdom, and, similarly, to distribute all over Central Europe books and periodicals received from Universities and learned societies in Great Britain. In 1926 it added to its other functions that of a clearing-house for reception and distribution of scientific

books and periodicals from and between individuals and institutions in Great Britain and Ireland. Hon. Sec.—C Fuller, B.A., Assistant Librarian, London School of Economics.

Among foreign organizations useful to British students may be mentioned: Austria—(1) Kursorganisation der Wiener medizinischen Fakultät, Vienna ix. 1, Porzellang 22, from which programmes of medical courses for foreigners and others can be obtained, (2) Minerva Buro, Vienna viii, Schlosselgasse 22 (information about board and lodging), (3) Wiener Internat. Hochschul Kurse, Vienna ix., Boltzmanngasse 16.

Denmark—Anglo-Danish Students' Bureau, 50 Russell Sq, London, W C 1

Egypt—Educational Mission in England, 39 Victoria St., Westminster, London, S.W.1.

France—Office National des Universités et Écoles Françaises, London Branch, 1-7 Cromwell Gardens, London, S.W.7. The Office published in 1925 a comprehensive Handbook giving information about the French universities and the entire system of organisation of education in France. Price 5s. The French Ministry of Public Instruction announced on Sept 17, 1926, the admission to equivalence with the "baccalauréat de l'enseignement secondaire français" of every certificate of matriculation issued by one of the Universities of the United Kingdom and every diploma accompanied by an attestation of the Universities Bureau of the British Empire certifying that the diploma entitles its holder to admission as a regular student to degree courses in one of those universities.

Germany—Deutsches Institut für Ausländer, Universität Berlin, C 2 Universitätsgebäude. Publishes, monthly, *Mitteilungen*.

Holland—Netherlands Committee for international academic relations, 33 Wasstraat, Leyden.

Italy—Istituto Interuniversitario Italiano, R. Palazzo Venezia, N. 118, Roma [There is a *British Institute* at Florence, Palazzo Antinori, Piazza Antinori 3, comprising a School in English for Italians, with 3 years' (elementary), 2 years' (higher), and 2 years' (finishing) courses, a reading-room and library, and the organizing of lectures, concerts, etc. Its Higher Diploma is of the standard of the Doctorate of an Italian Univ. Director—Dr H. Goad

Norway—Studie-Oplysningskontoret, Universitetet, Oslo

Spain—Centro de Estudios Históricos, Almagro, 26, Madrid

Switzerland—Office Central Universitaire Suisse, rue de l'Hôpital 30, Berne

DIRECTORIES OF THE UNIVERSITIES and other learned institutions of the world: *Minerva* (Walter de Gruyter & Co, Leipzig) and *Index Generalis* (by Prof. R. de Montessus de Ballore, four editions, French, English, American, Spanish, annually, London Agents, Dent & Sons, Ltd, 10 Bedford St, W.C. 2).

## UNITED STATES OF AMERICA

In the 975 Universities, Colleges, and Professional Schools which submitted returns for 1925-26 to the United States Bureau of Education there were enrolled in that year 822,895 students, of whom rather more than one-third were women. Of these institutions 154 were under public and 821 under private control; 156 were independent professional schools. Of the total number of students 55,632 were in pre-matriculation departments and 32,500 were in graduate schools. Law students numbered 40,359, medical 19,682, dental 11,777, theological 13,655, pharmacy 10,815, engineering 59,315. For full information about American Universities students in this country are advised to apply to the American University Union, British Division, 50 Russell Sq., on the continent of Europe to the Paris office of the Union, 173 Boulevard St. Germain. In Rome there is an American Academy at Porta San Pancrazio 29. In Belgium the Fondation Universitaire, which administers numerous scholarships tenable in American institutions of higher learning, has its office at 74 rue de Namur, Bruxelles. In Prague there is an American Institute. In America reference may be made to the American Council on Education, 26 Jackson Place, Washington, or to the Institute of International Education, 2 West 45th St., New York. This Institute published, in 1927, a *Guidebook for Foreign Students in the U.S.A.* The Bureau of Education of the United States Department of the Interior published in 1921 a Bulletin (No. 39 of 1920) on "Facilities for Foreign Students in American Colleges and Universities." This is obtainable from the Government Printing Office, Washington, D.C., at 15 cents a copy. A recent Australian view of American Univ. life and organization is given in *The American University* by E. R. Holme of the Univ. of Sydney (Angus and Robertson, Ltd., Sydney, 1920, 7s. 6d.). A description of American Univs. from the point of view of a French scientist is given in *Universities and Scientific Life in the U.S.A.*, by Prof. M. Caullery (Oxford Univ. Press, 1922, 10s. 6d.).

"International House," Riverside Drive, New York, opened Sept. 1924, is a residential club for over 500 foreign and American students. The requisite funds were provided by J. D. Rockefeller, Junior, who also founded the "International Education Board" (chartered Jan. 16, 1923). This Board has established the International Institute of Teachers College (v. *infra*, Columbia Univ.)

The British Information Library, 44 Whitehall Street, New York, established Dec. 1919, for the convenience of Americans desiring information on British current affairs, is a branch of the News Department of the Foreign Office, from which it is well supplied with official documents and other publications. It has become the recognized centre for information on British Empire affairs. It is in close touch with the Dominion Trade Commissioners in New York, and can give information on Dominion affairs. Wherever possible, official documents are lent, on request, to American libraries under the usual inter-library loan conditions. Early copies of documents dealing with matters of



general interest, such as foreign affairs, finance, education, social welfare, industrial relations, mineral and oil resources, etc., are received regularly direct from London. The Library also has an important file of documents on Indian affairs, and some of the leading Indian newspapers. It is entirely free to the public, and information is gladly given to all enquirers. The Library is the official agent in U.S.A. for publications of H M. Stationery Office.

American Professors on leave of absence sometimes receive grants for expenses of foreign travel from the Institute of International Education, and report to the Institute on their observations while teaching in foreign Institutions. Columbia, Pennsylvania, Johns Hopkins, Cornell, Harvard, Mass. Inst. Tech., and Yale co-operate in arranging exchanges with France of Professors of Applied Science.

For information as to American University and College Scholarships for British students see Appendix XXIII.

A British-American Association of Phi Beta Kappa (founded 1776—a society of American University scholars of distinction) was formed in England in 1924 under the presidency of Lord Balfour. Address, American University Union, 50 Russell Sq., London, W C.1.

**EXPENSES** Annual tuition fees range from a maximum of about £60 in the large Eastern universities to a minimum of about £15 in the State universities and small colleges of the Middle West. Living costs vary according to the size of the college or university, and the size of the town in which it is located. In general, living expenses in the South are a little less than in the Middle West, and in the Middle West a little less than in the West and East. The cost of an academic year of nine months may be reckoned at about £300 in the most expensive places, and £130 in the least expensive. Transportation costs about 2d. a mile.

**AMERICAN DEGREES (non-professional).** The following notes are based on a Report presented by a Committee of the American Council on Education to the French Ministry of Public Instruction. The American Colleges, both those which are independent institutions and the colleges of liberal arts within Universities, award the A.B. (or B.S.) degree to students who complete a 4 years' course. Ordinarily the student at the time of admission to the college is about 18 years of age and has completed a 4 years' course in a secondary school. A considerable portion of his work at college belongs, however, to what in European countries is called secondary education. A peculiarity of the American system of grading, both in secondary and in higher institutions, is the weight attached to the length of time spent under instruction, a degree being attainable by gradual accumulation of a specified number of "credits" (certificates of definite periods of time spent successfully under instruction), which thus largely replace the examinations used in other countries for testing the student's capacity at various intervals. The college graduate who aspires to the degree of M.A. (or M.S.) proceeds to the Graduate School of a University (the professional schools of law, medicine, etc., with few exceptions, admit undergraduates), and there pursues his studies, either general or, if aiming at a subsequent doctorate, specialized, for one year. The Ph.D.

requirements are ordinarily "3 years of resident study, beyond the baccalaureate, the presentation of a thesis embodying the results of original research, and the passing of a comprehensive examination testing the candidate's knowledge of his chosen field of learning"

The Report points out that higher education in the U S A is largely autonomous, there being no control by the Federal Government and little control by the political authorities of any State. Such standardization as has been effected has come through the voluntary efforts of groups of institutions having similar ideals and purposes. Conspicuous among these is the Association of American Universities. The Scottish Universities Entrance Board exempts from the preliminary examination of the Scottish universities holders of certificates which admit to a regular course of study leading to a degree in Arts, Pure Science, or Medicine in any of the universities or colleges in the United States of America included in the accepted list of colleges and universities approved by the Association of American Universities.

The University of Cambridge grants exemption from the whole of the Previous examination to a student who has qualified for admission to one of the universities or colleges of the United States of America which has been approved by the Senate for the purposes of affiliation, and also to students who have passed the examinations of the American College Entrance Examination Board, provided examinations passed cover English, 3 units or an equivalent standard, Latin or Greek, 4 units or an equivalent standard, a third language, 3 units or an equivalent standard, and Mathematics, 3 units or an equivalent standard.

The University of Oxford grants senior standing to American students who hold the Bachelor of Arts degree from certain approved American universities, and junior standing to students who have pursued a course of study at such universities extending over two years, provided that the course has included the study of two languages other than English, Latin or Greek being one of these languages.

Below is given a list of 178 institutions approved by the Association of American Univs. This list has been adopted by most of the Univs. of the U.K. for the purpose of admission of graduates with a view to qualifying for the Ph.D. degree (v. p. 18). They may be classified as:

I. 36 Univs. of complex organization, usually with *graduate schools* and certain professional and technological schools. These are the 28 members of the Assocn. (including McGill and Toronto), and Boston, New York, and Western Reserve and the Univs. of Cincinnati, Colorado, Pittsburgh, Texas, and Washington.

II. 21 *Technological Institutions*: Agric. Coll. of Utah, Logan, Utah; California Inst. of Tech. (M), Pasadena, Cal.; Carnegie Inst. of Tech., Pittsburgh, Pa.; Case School of Applied Science (M), Cleveland, Ohio; Clarkson Coll. of Tech. (M), Potsdam, N.Y.; Iowa State Coll., Ames, Iowa; Lehigh Univ. (M), South Bethlehem, Pa.; Massachusetts Agric. Coll., Amherst, Mass.; Massachusetts Inst. of Tech., Cambridge, Mass.; Oregon Agric. Coll., Corvallis, Ore.; Pennsylvania State Coll., State College, Pa.; Polytechnic Inst. of Brooklyn (M), Brooklyn, N.Y.; Purdue

Univ., Lafayette, Ind. ; Rensselaer Polyt. Inst. (M), Troy, N.Y. ; Rose Polyt. Inst, Terre Haute, Ind ; Simmons Coll. (W), Boston, Mass. ; State Coll of Washington, Pullman, Wash ; Stevens Inst. of Tech. (M), Hoboken, N J , United States Military Academy, Westpoint, N Y , Univ of Maryland, College Park, Md , Worcester Polyt. Inst. (M), Worcester, Mass

III. The remaining 121 *Colleges* : primarily organized with undergraduate curricula leading to the A.B. or B.S., in some cases with strong technological divisions, and occasionally a strong professional school.

Agnes Scott Coll (W), Decatur, Ga., Albion Coll, Albion, Mich ; Alfred Univ, Alfred, N Y , Allegheny Coll, Meadville, Pa ; Amherst Coll (M), Amherst, Mass , Baker Univ, Baldwin City, Kan , Barnard Coll (W), New York , Bates Coll., Lewiston, Me , Beloit Coll, Beloit, Wis , Birmingham Southern Coll, Birmingham, Ala ; Boston Coll. (M), Chestnut Hill, Mass ; Bowdoin Coll (M), Brunswick, Me ; Brown Univ, Providence, R I , Bryn Mawr Coll. (W), Bryn Mawr, Pa., Carleton Coll, Northfield, Minn ; Carthage Coll, Carthage, Ill ; Centre Coll (M), Danville, Ky , Coe Coll, Cedar Rapids, Iowa, Colby Coll, Waterville, Me , Colgate Univ (M), Hamilton, N Y , Coll of the City of New York (M), New York, N Y , Coll of St Catherine (W), St Paul, Minn , Coll of St Elizabeth (W), Convent Station, N J , Coll of St. Teresa (W), Winona, Minn , Coll of William and Mary, Williamsburg, Va., Coll of Wooster, Wooster, Ohio , Colorado Coll, Colorado Springs, Col , Connecticut Coll for Women (W), New London, Conn , Converse Coll (W), Spartanburg, S C , Cornell Coll, Mount Vernon, Iowa ; Dartmouth Coll (M), Hanover, N H , Davidson Coll (M), Davidson, N C , Denison Univ, Granville, Ohio, De Pauw Univ, Greencastle, Ind , Dickinson Coll, Carlisle, Pa , Doane Coll, Crete, Neb ; Dominican Coll (W), San Rafael, Cal , Drake Univ, Des Moines, Iowa , Drury Coll, Springfield, Mo , Earlham Coll, Richmond, Ind , Elmira Coll (W), Elmira, N Y , Emory Univ (M), Atlanta, Ga , Eureka Coll., Eureka, Ill , Florida State Coll for Women (W), Tallahassee, Fa ; Fordham Univ (M), Fordham, N Y , Franklin Coll, Franklin, Ind. ; Franklin and Marshall Coll (M), Lancaster, Pa , Georgetown Univ (M), Washington, D C , Gettysburg Coll, Gettysburg, Pa , Goucher Coll (W), Baltimore, Md , Grinnell Coll, Grinnell, Iowa , Hamilton Coll (M), Clinton, N Y , Hamline Univ, St Paul, Minn , Haverford Coll (M), Haverford, Pa , Heidelberg Univ, Tiffin, Ohio , Hobart Coll, Geneva, N Y , Howard Coll, Birmingham, Ala , Hunter Coll of the City of New York, New York , Illinois Coll , Jacksonville, Ill , Illinois Wesleyan Univ, Bloomington, Ill , Illinois Woman's Coll (W), Jacksonville, Ill , Kenyon Coll (M), Gambier, Ohio , Knox Coll., Galesburg, Ill , Lafayette Coll (M), Easton, Pa , Lake Erie Coll (W), Painesville, Ohio ; Lake Forest Coll, Lake Forest, Ill , Lawrence Coll , Appleton, Wis , Macalester Coll, St Paul, Minn., Marietta Coll, Marietta, Ohio , Miami Univ., Oxford, Ohio ; Middlebury Coll, Middlebury, Vt ; Mills Coll (W), Oakland, Cal., Milwaukee-Downer

(M) For men only.

(W) For women only.

All others co-educational.

Coll. (W), Milwaukee, Wis. ; Monmouth Coll., Monmouth, Ill. ; Morningside Coll., Sioux City, Iowa ; Mount Holyoke Coll. (W), South Hadley, Mass ; Muhlenberg Coll, Allentown, Pa. ; Municipal Univ. of Akron, Akron, Ohio ; New Rochelle Coll. (W), New Rochelle, N Y ; New York State Coll. for Teachers, Albany, N.Y. ; North-Western Coll., Naperville, Ill ; Oberlin Coll, Oberlin, Ohio ; Occidental Coll, Los Angeles, Cal ; Ohio Univ, Athens, Ohio ; Ohio Wesleyan Univ, Delaware, Ohio, Otterbein Coll, Westerville, Ohio, Park Coll., Parkville, Miss ; Pomona Coll, Claremont, Cal ; Radcliffe Coll (W), Cambridge, Mass ; Randolph-Macon Coll (M), Ashland, Va, Randolph-Macon Woman's Coll. (W), Lynchburg, Va, Reed Coll, Portland, Ore, Rice Inst, Houston, Texas, Ripon Coll, Ripon, Wis, Rockford Coll (W), Rockford, Ill ; Rosary Coll (W), River Forest, Ill ; Rutgers Coll (M), New Brunswick, N J, St. Lawrence Univ, Canton, N Y ; Simpson Coll, Indianola, Iowa, Smith Coll. (W), Northampton, Mass, Swarthmore Coll, Swarthmore, Pa. ; Sweet Briar Coll (W), Sweet Briar, Va, Syracuse Univ, Syracuse, N Y. ; Trinity Coll, Durham, N C ; Trinity Coll (M), Hartford, Conn, Trinity Coll (W), Washington, D C., Tufts Coll, Medford, Mass ; Tulane Univ (M), New Orleans, La, Union Univ (M), Schenectady, N Y, Univ of Alabama, University, Ala, Univ of Arizona, Tucson, Ariz ; Univ. of Arkansas, Fayetteville, Ark, Univ of Buffalo, Buffalo, N Y, Univ of Chattanooga, Chattanooga, Tenn, Univ of Delaware, Newark, Del, Univ of Florida (M), Gainesville, Fl ; Univ. of Georgia (M), Athens, Ga, Univ of Idaho, Moscow, Ida, Univ of Kentucky, Lexington, Ky, Univ of Maine, Orono, Me ; Univ of Mississippi, University, Miss, Univ of Montana, Missoula, Mont ; Univ of Nevada, Reno, Nev, Univ of New Hampshire, Durham, N H, Univ. of North Dakota, University, N D, Univ of Notre Dame (M), Notre Dame, Ind, Univ of Oklahoma, Norman, Okla, Univ. of Oregon, Eugene, Ore, Univ of Redlands, Redlands, Cal, Univ of Richmond, Richmond, Va, Univ of Rochester, Rochester, N Y, Univ of South Dakota, Vermilion, S D, Univ of South Carolina, Columbia, S.C ; Univ of Southern California, Los Angeles, Cal ; Univ of the South (M), Sewanee, Tenn ; Univ of Tennessee, Knoxville, Tenn ; Univ of Utah, Salt Lake City, Utah, Univ of Vermont, Burlington, Vt ; Univ. of West Virginia, Morgantown, W Va ; Univ of Wyoming, Laramie, Wy ; Vanderbilt Univ, Nashville, Tenn ; Vassar Coll. (W), Poughkeepsie, N.Y. ; Wabash Coll (M), Crawfordsville, Ind. ; Washburn Coll, Topeka, Kan. ; Washington and Jefferson Coll. (M), Washington, Pa., Washington and Lee Univ. (M), Lexington, Va ; Wellesley Coll. (W), Wellesley, Mass., Wells Coll (W), Aurora, N Y. ; Wesleyan Univ. (M), Middletown, Conn. ; Western Coll for Women (W), Oxford, Ohio ; Westminster Coll., New Wilmington, Pa, Wheaton Coll. (W), Norton, Mass, Whitman Coll, Walla Walla, Wash ; William Jewell Coll. (M), Liberty, Mo, Williams Coll. (M), Williamstown, Mass ; Wilson Coll. (W), Chambersburg, Pa. ; Winthrop Coll. (W), Rock Hill, S C. ; Wittenberg Coll., Springfield, Ohio.

(M) For men only.

(W) For women only.

All others co-educational.

The following particulars of the 26 institutions in the United States belonging to the Assocn of American Univs. have been kindly supplied by the American University Union, British Division. All are co-educational, except C U A, Clark, Harvard, Princeton, Virginia, and Yale, and even these, except C U A and Princeton, admit women for graduate work. Fuller information, including particulars of equipment and research funds, library facilities, and facilities for publication of research results, is given in *Opportunities for Study at American Graduate Schools*, Bulletin, 1921, No. 6, of the United States Bureau of Education. The American Council on Education issued in 1928 *American Universities and Colleges*, ed David Allan Robertson. Charles Scribner's Sons, N Y.

CALIFORNIA, UNIVERSITY OF (founded 1868), Berkeley, Cal. (State Univ) *President* W W Campbell, Sc D, LL D *Faculties*. Arts, Science, Agric, Mechanics, Mining, Civil Engineering, Chemistry, Commerce, Education, Jurisprudence, Medicine, Dentistry, Vocational Education, Fine Arts, Law, Pharmacy.

*Library* 638,933 vols. *Teaching Staff* 1469 *Students*, excluding Extension Courses, 18,969 *Summer Session* in all departments, 6 weeks, 7386 students

CATHOLIC UNIVERSITY OF AMERICA (founded 1889), Washington, D C *Rector* Rt Rev T J Shahan, S T D, J U L, LL D *Faculties* Arts, Sacred Sciences, Law, Philosophy, Letters, Sciences, Divinity

*Library* 268,504 vols *Teaching Staff* 115 *Students* 863. *Summer School* for Catholic women teachers, 6 weeks, 724 students.

CHICAGO, UNIVERSITY OF (1891), Chicago, Ill *Acting President* Frederic Woodward, A M, LL M *Faculties* Arts and Lit, Science, Divinity, Law, Medicine, Commerce and Admn, Social Service Admn, Educn

*Libraries* 1,000,000 vols *Teaching Staff* 612 *Students* 14,472. *Summer quarter* in all departments, 10 weeks

CLARK (founded 1889), Worcester, Mass. *President*: Wallace W. Atwood.

*Libraries* 113,000 vols, 500 journals *Teaching Staff* 36 *Students* 376 *Summer School*, chiefly Geography and History, 5 weeks, 142 students

COLUMBIA (founded 1754), New York City. *President*: Nicholas Murray Butler, Ph D., LL D, D Litt *Faculties*. Arts, Pol Sc, Philos, Pure Sc, Mines, Engineering, Chemistry, Law, Medicine, Pharmacy, Architecture, Journalism, Business

*Libraries* 1,025,000 vols *Teaching Staff* 1934 *Students*, including Extension Dept. but excluding Summer Session and Home Study Courses, 25,359. *Summer Session* in all depts., 5 weeks, 12,720 students.

The "International Institute," established in 1923 with the aid of an annual contribution of \$100,000 for ten years from the International Education Board (founded by John D. Rockefeller, 1923), is an integral part of Teachers' College which had in that year some 250 foreign students and over 100 Americans who held posts as teachers in other countries. The Institute's work comprises: (a) Presentation of

general view of American educational system and its adaptation to foreign situations and problems , (b) visitation of American Schools for study of conditions and procedure ; (c) investigation of educational conditions in foreign countries , (d) instruction in American ideals and institutions as a basis for understanding American education ; (e) publication of *International Education Year-Book* dealing with progress of educn in various countries each year and completing once in 5 years an account of every country in the world.

CORNELL (founded 1868), Ithaca, N.Y. *President* Livingston Farrand, M D , LL D *Faculties* Arts and Science, Medicine, Agric , Archit , Engin , Law, Veterinary

*Libraries* 750,000 vols and pamphlets Over 2000 current periodicals received *Teaching Staff* 918 *Students* 5818 *Summer Session* in all depts , 6 weeks, 2023 students

HARVARD (founded 1638), Cambridge, Mass *President* Abbott Lawrence Lowell, LL D *Faculties* Arts and Science, Engineering, Archit , Business Admn , Theology, Law, Educn , Medicine, Dentistry

*Libraries* 2,497,200 *Teaching Staff* 770 *Students* . 7721 *Summer Session* in all depts , 6 weeks, 2452 students.

ILLINOIS, UNIVERSITY OF (founded 1868), Urbana, Ill (State Univ ). *President* . David Kinley, Ph D , LL D *Faculties* Liberal Arts and Sc , Commerce and Business Admn , Engineering, Agric , Law, Education, Medicine, Dentistry, Pharmacy, Music, Library Science, Railway Engin and Admn

*Library* 707,717 vols *Teaching Staff* 1005 *Students* 12,073 *Summer Session* in all depts , 8 weeks, 2412 students

INDIANA (founded 1820), Bloomington, Ind. (State Univ ) *President* Wm Lowe Bryan, Ph D , LL D *Faculties* Arts, Medicine, Education, Law, Commerce and Finance, Music, Science, Dentistry

*Library* 176,000 vols *Teaching Staff* 270. *Students* 4503 *Summer Session* in all depts., 9 weeks

IOWA, STATE UNIV. OF (founded 1855), Iowa City. *President* W A Jessup, Ph D *Faculties* Liberal Arts, Law, Medicine, Dentistry, Pharmacy, Applied Sc , Education, Commerce, Nursing, Journalism, Music

*Library* 315,500 vols *Teaching Staff* 533. *Students* 5833. *Summer Session* in all depts , 11 weeks, 3640 students

JOHNS HOPKINS (founded 1876), Baltimore, Maryland *President* : Frank Johnson Goodnow, LL D. *Faculties* Arts, Medicine, Engin., Hygiene and Pub Health.

*Libraries* 283,242 vols. *Teaching Staff* 487. *Students* : 4329. *Summer Session* in all depts., 5 weeks, 918 students

KANSAS, UNIV OF (1866), Lawrence, Kansas (State Univ ). *Chancellor* . E. H Lindley, Ph.D *Faculties* : Arts, Engineering, Law, Fine Arts, Pharmacy, Medicine, Education, Liberal Arts and Sc , Business.

*Library* 185,000 vols , 1500 periodicals. *Teaching Staff* . 326. *Students* 4613. *Summer Session* in all depts., 10 weeks, 1607 students.

MICHIGAN, UNIV. OF (1837), Ann Arbor, Mich. (State Univ.). *President* C C. Little, Sc D. *Faculties*. Lit, Sc and Arts, Engin. and Archit, Medicine, Law, Pharmacy, Dental Surgery, Educn, Bus. Admn.

*Libraries*. 615,000 vols, 3618 periodicals. *Teaching Staff*. 659. *Students*: 10,134. *Summer Session* in all depts, 8 weeks, 3322 students.

MINNESOTA, UNIV OF (1868), Minneapolis, Minn (State Univ). *President*. L. D. Coffman, Ph D. *Faculties*. Sc., Lit, and Arts, Engin, Archit., Chem, Agric, Forestry, Home Econ., Law, Medicine, Dentistry, Mining, Pharmacy, Educn, Business Administration

*Library*. 475,000 vols. *Teaching Staff*: 679. *Students* 13,025. *Summer Session* in all depts, 11 weeks, 6566.

MISSOURI, UNIV. OF (1839), Columbia, Mo. (State Univ). *President*: S. D Brooks, LL.D *Faculties*: Arts and Science, Educn, Business and Public Admn, Law, Engineering, Agric, Medicine, Journalism, Mines and Metallurgy, Fine Arts.

*Library* 231,366 vols, 25,000 pamphlets, 2942 periodicals *Teaching Staff* 339 *Students* 4618 *Summer Session* in all depts, 8 weeks, 1643 students

NEBRASKA, UNIV OF (1869), Lincoln, Neb (State Univ). *Chancellor*: S Avery, Ph D, LL D *Faculties* Agric, Medicine, Pharmacy, Engin, Arts and Sc, Business Admn, Dentistry, Law, Fine Arts, Nursing, Journalism, Agric

*Library* 204,673 vols *Teaching Staff* 434 *Students* 8039. *Summer Session* in all depts, 12 weeks

NORTH CAROLINA, UNIV. OF (founded in 1789), Chapel Hill, N C. *President* H W Chase, Ph D, LL D *Faculties* Liberal Arts, Applied Science, Education, Commerce, Law, Med., Pharmacy, Engineering.

*Libraries*: 160,000 vols, 1700 current periodicals. *Teaching Staff*: 175 *Students* 2510 *Summer School* in all depts, 12 weeks, 1236 students

NORTHWESTERN (founded 1855), Evanston, Ill. *President*: Walter Dill Scott, Ph D, LL D *Faculties* Medicine, Law, Dentistry, Music, Commerce, Speech, Liberal Arts, Engineering, Journalism

*Library* 166,094 vols. *Teaching Staff*. 563 *Students*. 8710. *Summer Session* in all depts, 8 weeks, 1823 students

OHIO STATE UNIV. (founded 1870), Columbus, Ohio *President*: G. W Rightmire *Faculties*. Agriculture, Liberal Arts, Commerce, Education, Engineering, Dentistry, Law, Med., Pharm, Vet. Med. Social Administration, Journalism

*Library* 300,000 vols *Teaching Staff*. 783. *Students*. 9963. *Summer Quarter* in all depts, 10 weeks, 2550 students.

PENNSYLVANIA, UNIVERSITY OF (founded 1740), Philadelphia, Pa. *Provost* J H Penniman, Ph D, LL D. *Faculties*: Arts, Science, Educn, Fine Arts, Medicine, Law, Dentistry, Vet. Med., Elec Engin.

*Libraries* 615,325 vols, 2547 periodicals. *Teachers*: 1281. *Students*: 10,923 *Summer School* in nearly all depts, 6 weeks, 2510 students

PRINCETON (founded in 1747), Princeton, N.J. *President*: J. G. Hibben, Ph D, LL D, Litt D *Faculties*: Arts, Science, Engin.

*Libraries* 600,000 vols, 116,000 periodicals and pamphlets. *Teachers* 290 *Students* 2466

STANFORD (founded 1891), California. *President*: Ray Lyman Wilbur. *Faculties*: Arts, Educn, Law, Medicine, Business, Engineering

*Libraries* 410,000 vols *Teaching Staff* 368 *Students*: 4201 *Summer Quarter* in all depts, 10 weeks, 1150 students

UNIVERSITY OF VIRGINIA (founded in 1819), Charlottesville, Va. (State Univ) *President* E A Alderman, D.C L, LL D *Faculties*: Arts, Law, Med, Engin, Educn

*Libraries* 151,333 vols *Teaching Staff* 139 *Students* 1991. *Summer Quarter* in all depts, 10 weeks, 2170 students.

WASHINGTON UNIVERSITY (founded in 1853), St. Louis, Missouri. *Chancellor* H Spencer Hadley, LL D *Faculties* Liberal Arts, Engin and Archit, Business and Public Administration, Botany, Law, Med, Dent, Fine Arts

*Library* 261,301 vols, 99,468 pamphlets *Teaching Staff* 400. *Students* 3352 No *Summer School*

WISCONSIN, UNIV. OF (1849), Madison, Wis (State Univ). *President*: Glenn Frank, Litt D *Faculties* Letters and Sc., Engineering, Agric, Law, Medicine

*Library* 735,000 vols, 376,000 pamphlets *Teaching Staff*: 854 *Students* 8703 *Summer Session* in all depts, 6 weeks, 5015 students

YALE (founded 1701), New Haven, Conn *President*: J. R. Angell, Litt D, LL D *Faculties* Arts, Science, Med, Divinity, Law, Fine Arts, Music, Forestry

*Libraries* 1,700,000 vols, 11,556 periodicals *Teaching Staff* 539 *Students* 4866 *Summer Session* in Law, Forestry, and Engin Field work, 10 weeks



## XXV

*[This Appendix can be obtained in pamphlet form from the Universities Bureau, free of charge.]*

## PROFESSIONAL SCHOOLS, SPECIALIST STUDIES, AND POST-GRADUATION COURSES IN THE UNIVERSITIES AND UNIVERSITY COLLEGES OF GREAT BRITAIN AND IRELAND

### PREFATORY NOTE

THE Universities, collectively, make provision for the advancement of all branches of knowledge. Of their several fields of study the greater part is common ground, yet each of them has its special plots which it cultivates, in some cases with a view to the needs of the province which it serves, in others because it has been agreed, or arranged, that it shall undertake work for which there is but a limited demand.

The statements which follow indicate the respects in which the Universities, individually, specialize, *i.e.* undertake work which is not common to them all. "Specialist courses" are courses of study in special subjects for which provision is not generally made.

For further information application should be made to the Registrars, or Secretaries (London Colleges and Schools, Aberdeen, Edinburgh, St. Andrews, Belfast) of the several Universities and Colleges.

### DISTRIBUTION OF GROUPS OF SUBJECTS

#### SCHOOLS OF THEOLOGY

CAMBRIDGE, DURHAM, LONDON, [Hackney and New Coll, Hampstead (Congregational), King's Coll Theological Department (Church of England), Wesleyan Coll, Richmond, St John's Hall, Highbury (Church of England)], MANCHESTER, OXFORD, WALES, [Univ. Coll., Bangor, The Associated Theological Colls.]. ABERDEEN; EDINBURGH; GLASGOW, ST ANDREWS TRINITY COLLEGE, UNIV OF DUBLIN.

#### SCHOOLS OF LAW

BIRMINGHAM; CAMBRIDGE, DURHAM [Armstrong Coll]; LEEDS; LIVERPOOL; LONDON, [University Coll, King's Coll, and the School of Economics, jointly]; MANCHESTER; OXFORD, SHEFFIELD; WALES, [Univ. Coll, Aberystwyth] ABERDEEN, EDINBURGH; GLASGOW. BELFAST; TRINITY COLLEGE, UNIV. OF DUBLIN, NATIONAL OF IRELAND, [Univ. Colls of Dublin, Cork, and Galway].

Courses in Law meeting the requirements of the Solicitors Act, 1922, are provided by all Univs. and Colls. in England and Wales, with the exception of University of Reading

## SCHOOLS OF MEDICINE

BIRMINGHAM; BRISTOL; CAMBRIDGE; DURHAM, [College of Medicine, Newcastle]; LEEDS; LIVERPOOL; LONDON, [St. Bartholomew's Hospl, St. Thomas's Hospl., Westminster Hospl., Guy's Hospl, St. George's Hospl., London Hospl., Middlesex Hospl, Charing Cross Hospl, London (Royal Free Hospl) Sch. of Med for Women, University Coll. and University Coll Hospl., King's Coll. and King's Coll Hospl, St. Mary's Hospl, London School of Tropical Med., Lister Institute of Preventive Med, Bethlem Royal Hospl. (Mental), Maudsley Hospl. (Mental), Cancer Hosp, Royal Army Medical Coll., Royal Naval Coll. (Greenwich)], MANCHESTER; OXFORD, SHEFFIELD, WALES, [Welsh National School of Med., Cardiff]. ABERDEEN, EDINBURGH; GLASGOW, ST. ANDREWS BELFAST; TRINITY COLLEGE, UNIV OF DUBLIN; NATIONAL OF IRELAND, [Univ Colls of Dublin, Cork, and Galway]

## SCHOOLS OF DENTAL SCIENCE

BIRMINGHAM, BRISTOL, DURHAM, [College of Medicine, Newcastle, and Newcastle Dental Hospl.]; LEEDS; LIVERPOOL, LONDON, [St. Bartholomew's Hospl, Westminster Hospl, Guy's Hospl, St George's Hospl, London Hospl, Middlesex Hospl, Charing Cross Hospl, King's Coll and King's Coll Hospl, St. Mary's Hospl, London School of Dental Surgery, University Coll Medical School, Dental Department], MANCHESTER; SHEFFIELD BELFAST, TRINITY COLLEGE, UNIV. OF DUBLIN, NATIONAL OF IRELAND, [Univ Colls of Dublin and Cork]

## SCHOOLS OF VETERINARY SCIENCE

LIVERPOOL. LONDON, [Royal Veterinary Coll] EDINBURGH, [Royal (Dick) Veterinary Coll], GLASGOW, [Veterinary College].

## SCHOOL OF PHARMACY

GLASGOW, [Royal Technical Coll], LONDON, [School of Pharmacy], MANCHESTER, Univ. Coll, Exeter, Univ. Coll, Nottingham.

## SCHOOLS OF MUSIC

BIRMINGHAM; CAMBRIDGE, DURHAM; LONDON, [Royal Academy, Royal College, Trinity College], MANCHESTER, [Royal Manchester Coll. of Music], OXFORD; READING; SHEFFIELD. WALES, [Univ Colls of Aberystwyth, Bangor, and Cardiff], Univ. Colls, Exeter, Nottingham, and Southampton. EDINBURGH TRINITY COLLEGE, UNIV. OF DUBLIN; NATIONAL OF IRELAND, [Univ. Colls. of Dublin and Cork].

## SCHOOLS OF ART

DURHAM, [Armstrong Coll], LONDON, [University Coll.—Slade School, Goldsmiths' Coll]; READING. ABERDEEN; EDINBURGH.  
*Art of the Theatre.* LONDON, [East London Coll]

*Civic Art and Design, and Town Planning.* BIRMINGHAM; LIVERPOOL; LONDON, [University Coll.—Bartlett School]; SHEFFIELD.

*Arts and Crafts.* READING; WALES, [Univ. Coll., Aberystwyth].

## SCHOOLS OF ARCHITECTURE

CAMBRIDGE, DURHAM, [Armstrong Coll.]; LIVERPOOL; LONDON, [Univ. Coll.—Bartlett School]; MANCHESTER, SHEFFIELD GLASGOW, [Roy. Tech. Coll.]. BELFAST, [Municipal Coll. of Technology]; NATIONAL OF IRELAND, [Univ. Colls. of Dublin and Cork].

*Naval Architecture and Marine Engineering.* DURHAM, [Armstrong College], LIVERPOOL. GLASGOW. BELFAST.

## SCHOOL OF JOURNALISM

LONDON, [University Coll., King's Coll., Bedford Coll., and School of Economics, jointly].

## SCHOOL OF LIBRARIANSHIP

LONDON, [University Coll.]

## SCHOOLS OF COMMERCIAL SCIENCE

BIRMINGHAM, DURHAM, [Armstrong Coll.], LEEDS, LIVERPOOL; LONDON, [School of Economics], MANCHESTER, READING; UNIV. COLL. NOTTINGHAM, UNIV. COLL. SOUTHAMPTON ABERDEEN, EDINBURGH BELFAST, TRINITY COLL., UNIV. OF DUBLIN, NATIONAL OF IRELAND, [Univ. Colls. of Dublin, Cork, and Galway].

## SCHOOLS OF ENGINEERING (v. also Schools of Architecture)

All English Universities, WALES, [Univ. Colls. of Cardiff and Swansea], UNIV. COLLs. OF NOTTINGHAM AND SOUTHAMPTON. ABERDEEN; EDINBURGH, GLASGOW, [Univ. and Roy. Tech. Coll.], ST. ANDREWS, [Univ. Coll., Dundee] BELFAST, [Municipal Coll. of Technology]; TRINITY COLLEGE, UNIV. OF DUBLIN; NATIONAL OF IRELAND, [UNIV. COLLs. OF DUBLIN, CORK, AND GALWAY]

## SCHOOLS OF METALLURGY

BIRMINGHAM, CAMBRIDGE, DURHAM, [Armstrong Coll.]; LEEDS; LIVERPOOL, LONDON, [Imperial Coll.], MANCHESTER; SHEFFIELD (including Non-ferrous Metals); WALES, [Univ. Colls. of Cardiff and Swansea]. GLASGOW, [Royal Technical Coll.].

## SCHOOLS OF MINING

BIRMINGHAM; DURHAM, [Armstrong Coll.]; LEEDS; LONDON, [Imperial Coll.], MANCHESTER; SHEFFIELD; WALES, [Univ. Coll., Cardiff], UNIV. COLL., NOTTINGHAM. EDINBURGH, [Heriot-Watt Coll.]; GLASGOW, [Univ. and Royal Technical Coll.]

*Mining and Technology of Petroleum.* BIRMINGHAM; LONDON, [Imperial Coll].

*Mining Geology.* LONDON, [Imperial Coll]. GLASGOW.

## SCHOOLS OF AGRICULTURE, FORESTRY, HORTICULTURE, AND ESTATE MANAGEMENT

BRISTOL, [Royal Agric. Coll, Cirencester, and National Fruit and Cider Institute, Long Ashton], CAMBRIDGE, DURHAM, [Armstrong Coll]; LEEDS; LONDON, [Rothamsted (Lawes Agricultural Trust), South-Eastern Agricultural Coll, Wye], OXFORD; READING; WALES, [Univ. Colls of Aberystwyth and Bangor]; Univ. Coll, Nottingham, [in conjunction with Midland Agric. Coll]. ABERDEEN; EDINBURGH; GLASGOW, [West of Scotland Agricultural Coll]. BELFAST; TRINITY COLLEGE, UNIV. OF DUBLIN, NATIONAL UNIVERSITY OF IRELAND, [Univ Coll, Dublin].

*Tropical Agriculture* CAMBRIDGE.

*Forestry.* CAMBRIDGE, OXFORD; WALES, [Univ Coll, Bangor]. ABERDEEN, EDINBURGH NATIONAL OF IRELAND [Univ Coll, Dublin]

*Horticulture.* CAMBRIDGE, READING. NATIONAL OF IRELAND [Univ Coll of Dublin]

*Dairying* Univ Coll, Nottingham, READING. GLASGOW, [W. of Scotland Agric Coll] NATIONAL OF IRELAND [Univ Coll., Cork].

## SCHOOLS OF EDUCATION AND TRAINING COLLEGES

All Universities and University Colleges.

*Training of Teachers for the Deaf.* MANCHESTER.

## DISTRIBUTION OF SUBJECTS OF STUDY TO WHICH EXCEPTIONAL ATTENTION IS GIVEN IN CERTAIN OF THE UNIVERSITIES AND UNIVERSITY COLLEGES OF THE UNITED KINGDOM

(The omission of the name of a University or College from under any of the following subject-headings is not to be taken as an indication that the subject is not studied.)

Subjects generally provided for in Schools of Theology, Law, Medicine, etc., or ordinarily recognized as branches of the following departments of knowledge, are omitted from these lists, viz: Economics, English Language and Literature, History, ancient, mediæval, and modern; Logic; Mathematics; Philology, Philosophy, mental and moral, Phonetics; Anatomy, human and comparative; Botany; Biology, Chemistry, inorganic, organic, physical, physiological (biochemistry), technical, Embryology; Geography; Geology; Histology; Mineralogy, Morphology, Palæontology, Pathology, Physics; Physiology; Psychology, Zoology.

## ARTS

*Anthropology, including Primitive Technology and Archæology*: BIRMINGHAM, CAMBRIDGE; LONDON, [University Coll and School of Econ], OXFORD. EDINBURGH. NATIONAL OF IRELAND, [Univ Coll, Dublin] (Vide also Ethnology)

*Archæology, Assyrian and Babylonian*: LIVERPOOL; LONDON, [University Coll, King's Coll]; OXFORD.

„ *Celtic*. NATIONAL OF IRELAND, [The Univ Colls]

„ *Central American*: LIVERPOOL

„ *Classical*: CAMBRIDGE, LIVERPOOL, LONDON, [University Coll], OXFORD. EDINBURGH, GLASGOW.

„ *Cretan*: OXFORD

„ *Egyptian* LIVERPOOL, LONDON, [University Coll], MANCHESTER, OXFORD

„ *Mediæval*: BIRMINGHAM.

„ *Numismatics*. CAMBRIDGE; LIVERPOOL, OXFORD

„ *Roman Britain*: DURHAM, GLASGOW

*Astronomy*. CAMBRIDGE; DURHAM; LIVERPOOL, LONDON, [Univ. Coll.], OXFORD. EDINBURGH, GLASGOW

*Astro-Physics*: CAMBRIDGE, LONDON, [Imperial Coll].

*History, American*: OXFORD

„ *British Dominions*. CAMBRIDGE, LONDON, [King's College]; MANCHESTER, OXFORD, WALES, [Univ. Coll., Aberystwyth]. EDINBURGH.

„ *Byzantine*: LONDON, [King's Coll]; OXFORD.

„ *Central European*. LONDON, [King's Coll].

„ *French, and Institutions*. CAMBRIDGE, LONDON; MANCHESTER EDINBURGH

„ *Indian, and Economics*: CAMBRIDGE, LONDON, [School of Oriental Studies]; OXFORD EDINBURGH

„ *International*. LONDON, [School of Economics].

„ *Irish*: MANCHESTER. NATIONAL OF IRELAND, [The Univ. Colls.].

„ *Jewish*: LONDON, [Jews' College]

„ *of London*: LONDON, [University Coll].

„ *Military*: OXFORD; LONDON, [University Coll.].

„ *Naval*: CAMBRIDGE

„ *Russian*: LIVERPOOL; LONDON, [King's Coll.].

„ *Scottish*. EDINBURGH; GLASGOW.

„ *Welsh*. WALES [The Univ. Colls].

*International Relations*. LONDON, [School of Economics].

*Palæography, Diplomatic and Papyrology, Bibliography*: BIRMINGHAM; CAMBRIDGE; DURHAM; LIVERPOOL, LONDON, [University and King's Colls], MANCHESTER; OXFORD. EDINBURGH.

*Political Science*: BIRMINGHAM; CAMBRIDGE, LONDON, [School of Economics], OXFORD; WALES, [Univ. Coll., Aberystwyth].  
EDINBURGH; GLASGOW.

*Public Administration and Finance*. LONDON, [School of Economics],  
MANCHESTER; OXFORD; LEEDS

*Public Reading and Speaking*: DURHAM. ABERDEEN, EDINBURGH.

*Solar Physics*. CAMBRIDGE

LANGUAGES AND LITERATURE (omitting those which are studied in the large majority of Universities and Colleges, viz., Hebrew including Aramaic and Syriac, Greek, Latin, French, German, Italian, Russian, and Spanish)

*Amharic*: LONDON, [School of Oriental Studies].

*Anglo-Saxon*: CAMBRIDGE, LONDON, [Univ. Coll.], OXFORD. TRINITY COLLEGE, DUBLIN.

*Arabic*: BRISTOL, CAMBRIDGE, DURHAM; LONDON, [School of Oriental Studies]; MANCHESTER, OXFORD. EDINBURGH; GLASGOW  
TRINITY COLLEGE, DUBLIN

*Armenian*. LONDON, [School of Oriental Studies]

*Assamese*: LONDON, [School of Oriental Studies]

*Bantu*. CAMBRIDGE, LONDON, [School of Oriental Studies]

*Bengali*: CAMBRIDGE, LONDON, [School of Oriental Studies], OXFORD.

*Burmese*: CAMBRIDGE, LONDON, [School of Oriental Studies], OXFORD.

*Celtic* (v. also Irish, Welsh): LONDON, [University Coll.], OXFORD  
ABERDEEN, EDINBURGH, GLASGOW BELFAST, TRINITY  
COLLEGE, DUBLIN, NATIONAL OF IRELAND [The Univ. Colls.]

*Chinese*: CAMBRIDGE, LONDON, [School of Oriental Studies], MANCHESTER, OXFORD

*Danish*, v. Scandinavian.

*Dravidian Languages*: LONDON, [School of Oriental Studies].

*Dutch*: LONDON, [Univ. Coll. and Bedford Coll., jointly].

*Ethiopic*: LONDON, [School of Oriental Studies], OXFORD.

*Greek, Byzantine and Modern*. OXFORD, LONDON, [King's Coll.]

*Gujerati*: LONDON, [School of Oriental Studies].

*Hausa*: CAMBRIDGE; LONDON, [School of Oriental Studies].

*Hebrew (Modern)* LONDON, [School of Oriental Studies].

*Hindi* OXFORD; LONDON, [School of Oriental Studies].

*Hindustani*, v. Urdu

*Icelandic*, v. Scandinavian.

*Irish*: OXFORD. TRINITY COLLEGE, DUBLIN, NATIONAL OF IRELAND,  
[The Univ. Colls.].

*Japanese*: LONDON, [School of Oriental Studies].

*Jewish*: LONDON, [Jews' College]

*Kashmiri*: LONDON, [School of Oriental Studies].

*Malay*: LONDON, [School of Oriental Studies].

*Marathi* : CAMBRIDGE ; LONDON, [School of Oriental Studies] ; OXFORD.

*Melanesian* : LONDON, [School of Oriental Studies].

*Nepali* : LONDON, [School of Oriental Studies]

*Norwegian*, v. Scandinavian.

*Pali* : CAMBRIDGE ; LONDON, [School of Oriental Studies] ; OXFORD.

*Papuan* : LONDON, [School of Oriental Studies].

*Persian* : CAMBRIDGE ; LONDON, [School of Oriental Studies] ; OXFORD  
TRINITY COLLEGE, DUBLIN.

*Polynesian* : LONDON, [School of Oriental Studies].

*Portuguese* : LONDON, [King's College] ; Univ. Coll., Nottingham.

*Rabbinic* : LONDON, [Jews' College].

*Rhæto-Romance* : CAMBRIDGE.

*Rumanian* . CAMBRIDGE , LONDON, [King's College].

*Sanskrit* : CAMBRIDGE , LONDON, [School of Oriental Studies] ; OXFORD.  
EDINBURGH. TRINITY COLLEGE, DUBLIN.

*Scandinavian Languages*—*Danish, Norwegian, Swedish, Icelandic, Old Norse* CAMBRIDGE , LONDON, [University Coll.] ; OXFORD.

*Siamese* LONDON, [School of Oriental Studies].

*Sinhalese, Tamil, and Telugu* : CAMBRIDGE ; LONDON, [School of Oriental Studies] , OXFORD

*Slavonic Languages*, other than Russian : CAMBRIDGE , LONDON, [King's Coll.] , Univ. Coll., Nottingham.

*Slavonic Philology, Comparative* : LONDON, [King's Coll.] .

*Swahili* : LONDON, [School of Oriental Studies].

*Swedish*, v. Scandinavian.

*Talmudic* : CAMBRIDGE ; LONDON, [Jews' Coll.] .

*Tibetan* : LONDON, [School of Oriental Studies].

*Turkish* : CAMBRIDGE ; LONDON, [School of Oriental Studies].

*Utr* : LONDON, [School of Oriental Studies]

*Urdu* . CAMBRIDGE ; LONDON, [Sch of Oriental Studies] ; OXFORD.  
TRINITY COLLEGE, UNIV. OF DUBLIN.

*Welsh* : LIVERPOOL ; OXFORD ; WALES, [the 4 Univ. Colls.].

*Yoruba* : LONDON, [School of Oriental Studies].

*Comparative Philology* : CAMBRIDGE ; LONDON, [University Coll., King's Coll., School of Oriental Studies] ; OXFORD. ABERDEEN ; EDINBURGH ; GLASGOW TRINITY COLLEGE, DUBLIN.

*Imperial Latin* : MANCHESTER.

*Phonetics* . LONDON, [University Coll., School of Oriental Studies].

## SCIENCE, APPLIED SCIENCE, COMMERCE, SOCIOLOGY

*Aero-Dynamics* : LONDON, [Imperial Coll.].

*Animal Pathology* : CAMBRIDGE ; LONDON [R. Vet. Coll.].

*Aviation and Aero-Engineering* : CAMBRIDGE ; LONDON, [Imperial Coll., East London Coll.]; OXFORD. GLASGOW.

*Colloidal Chemistry* : BRISTOL ; LEEDS ; MANCHESTER.

*Cytology* : LIVERPOOL.

*Economic Entomology* : LIVERPOOL , LONDON, [Imperial Coll] ; MANCHESTER. EDINBURGH.

*Ethnology and Social Anthropology* : CAMBRIDGE , LONDON, [University Coll , School of Econ.] , OXFORD.

*Eugenics* : LONDON, [University Coll].

*Genetics* : CAMBRIDGE , LIVERPOOL ; OXFORD EDINBURGH.

*Geodesy* : CAMBRIDGE.

*Household Science* : BRISTOL ; LONDON, [King's Coll of Household and Social Sci] , READING ; WALES, [Univ. Coll , Cardiff].

*Meteorology* : CAMBRIDGE ; LONDON, [Imperial Coll] , OXFORD.

*Military Science* . BRISTOL , CAMBRIDGE ; DURHAM , LONDON ; OXFORD.

*Oceanography and Fisheries* : LIVERPOOL , WALES, [Univ. Coll., Aberystwyth]. ABERDEEN

*Physiology of Animal Nutrition* : CAMBRIDGE ABERDEEN , GLASGOW.

*Plant Pathology* CAMBRIDGE , LONDON, [Imperial Coll].

*Protozoology* : LONDON, [King's Coll., Lister Institute] EDINBURGH ; GLASGOW.

*Psychology, Comparative* . ABERDEEN.

„ *Experimental* CAMBRIDGE , LONDON, [University Coll , King's Coll , Bedford Coll] , MANCHESTER EDINBURGH , GLASGOW.

„ *Industrial* . LONDON, [School of Economics] ; MANCHESTER

*Railway Economics* : LONDON, [School of Economics] , MANCHESTER.

*Spectroscopy* : LONDON, [Imperial Coll , King's Coll] OXFORD.

*Statistics* : CAMBRIDGE ; LONDON, [University Coll , School of Economics] ABERDEEN ; EDINBURGH.

*Sociology* : LONDON, [School of Economics] ; LIVERPOOL

*Social Study* : BIRMINGHAM , BRISTOL , LEEDS ; LIVERPOOL , LONDON, [School of Economics, Bedford Coll , v. also Household Science], OXFORD ; WALES, [Univ. Coll., Cardiff] ; Univ. Coll., Nottingham. EDINBURGH ; GLASGOW ; ST. ANDREWS, [Univ. Coll., Dundee].

## LAW

*Law, International* : CAMBRIDGE ; LIVERPOOL ; LONDON, [School of Economics] ; OXFORD, SHEFFIELD. ABERDEEN ; EDINBURGH , GLASGOW.

„ *Commercial* : BIRMINGHAM ; LEEDS ; LIVERPOOL ; LONDON, [School of Economics]. EDINBURGH ; GLASGOW.

„ *Comparative* : LONDON, [University Coll.]

„ *Indian* : CAMBRIDGE ; LONDON, [School of Oriental Studies] ; OXFORD.

„ *Industrial* : BIRMINGHAM ; LONDON [School of Economics]. EDINBURGH.



*Law, Roman-Dutch* : CAMBRIDGE ; OXFORD ; LONDON.

„ *Russian, and Economics* : LONDON, [King's Coll, School of Economics].

„ *Scots* : The Scottish Universities.

## MEDICINE

*Cancer Research* LEEDS ; LONDON, [Middlesex Hospl, Cancer Hospl.] ; MANCHESTER ; SHEFFIELD. ABERDEEN

*Dietetics* · LONDON, [St. Thomas's Hospl Med Sch].

*History of Medicine* LONDON, [University Coll.]. EDINBURGH, SHEFFIELD.

*Medical Entomology* : CAMBRIDGE. EDINBURGH.

*Medical Statistics* : LONDON, [University Coll., Nat. Inst. for Med. Research, London School of Hygiene and Trop Med].

*Mental Diseases (Research)* : BIRMINGHAM.

*Parasitology and Helminthology* : CAMBRIDGE ; LIVERPOOL ; LONDON, [School of Hyg and Tropical Med] ABERDEEN ; EDINBURGH.

*Radiology and Electrolgy* : CAMBRIDGE ; LIVERPOOL. EDINBURGH ; GLASGOW.

*Tropical Medicine* : CAMBRIDGE, LIVERPOOL, LONDON, [Royal Army Med. Coll, School of Hyg and Tropical Med.]. EDINBURGH.

*Tropical Surgery* : LONDON, [School of Hyg and Tropical Med.].

*Tuberculosis* : WALES, [Univ Coll, Cardiff]. EDINBURGH ; GLASGOW.

## TECHNOLOGY

*Brewing* : BIRMINGHAM.

*Chemical Engineering, Technical Chemistry, or Industrial Chemistry* : LIVERPOOL, LONDON, [University Coll, Imperial Coll.] ; MANCHESTER. EDINBURGH ; GLASGOW (Roy. Tech. Coll.).

*Colour Chemistry, Bleaching, Dyeing* : LEEDS ; MANCHESTER ; Univ. Coll., Nottingham. GLASGOW, [Royal Technical Coll.] BELFAST (Munic. Coll.).

*Economic Mineralogy* : LONDON, [Imperial Coll].

*Electro-Chemistry* : MANCHESTER ; LONDON, [Imperial Coll.].

*Electrotechnics* : MANCHESTER ; BELFAST, [Municipal Coll.].

*Engineering, Automobile* : BRISTOL

„ *Dock and Harbour* : LIVERPOOL TRINITY COLLEGE, DUBLIN.

„ *Highway* : LONDON, [Imperial Coll.].

„ *Hydro-Electrical* · MANCHESTER ; WALES, [Univ. Coll., Bangor].

„ *Marine* : DURHAM, [Armstrong Coll.], LIVERPOOL. GLASGOW. BELFAST.

„ *Municipal and Sanitary* : LIVERPOOL, LONDON ; MANCHESTER [Coll. of Technology]. GLASGOW.

„ *Railway* : LIVERPOOL, LONDON, [Imperial Coll.].

„ *Water Supply and Irrigation* : MANCHESTER.

*Fuel, Coal and Gas*: LEEDS, LONDON, [Imperial Coll.]; MANCHESTER, [Coll. of Technology]; SHEFFIELD; Univ. Coll., Nottingham. GLASGOW, [Royal Technical Coll.]

*Glass*: SHEFFIELD

*Leather*: LEEDS.

*Oil Engineering and Refining*: BIRMINGHAM, LONDON, [Imperial College].

*Optical Engineering and Applied Optics*: LONDON, [Imperial Coll.].

*Piano, Piano Players, and other Musical Instruments* LONDON, [Northern Polytechnic]

*Photography*: MANCHESTER [Coll. of Technology].

*Rubber*: LONDON, [Northern Polytechnic], MANCHESTER

*Sugar*: GLASGOW, [Royal Technical Coll.]

*Textiles*. LEEDS, MANCHESTER, [Coll. of Technology], Univ. Coll., Nottingham. GLASGOW, [Royal Technical Coll.]. BELFAST, [Municipal Coll.]

*Woods and Fibres*: LONDON, [Imperial Coll.].

## POST-GRADUATION AND SPECIALIST COURSES FOR THE SESSION 1928-29

### UNIVERSITY OF BIRMINGHAM

A. Schools and Departments. *Brewing and the Bio-Chemistry of Fermentation*; *Commercial Science*, *Dental Science*; *Education*, *Engineering*; *Law*; *Medicine*; *Metallurgy*; *Mining*; *Music*; *Oil Engineering and Refining*; *Public Health Science*, and for the Trade Unions Industrial Certificate

B. Post-graduation Courses leading to the Ph.D. or other higher degrees:

(i.) ARTS: *English*; *French*, *German*, *Greek*; *Italian*, *Latin*; *Russian*; *Spanish*; *Geography*; *History*, *Music*, *Philosophy*.

(ii.) COMMERCE: An approved selected subject.

(iii.) MEDICINE: An approved selected subject.

(iv.) SCIENCE: *Bio-Chemistry of Fermentation*; *Botany*; *Chemistry*, *Engineering*; *Geology*; *Mathematics*, *Metallurgy*; *Mining*; *Oil Engineering and Refining*; *Physics*, *Zoology*.

C. Specialist Courses:

*Anthropology* (including primitive technology and archæology). A course of lectures, and practical instruction in the Museum of the Department, is given by the Professor of Anatomy and Anthropology throughout the Summer Term. *Brewing*: There is an Honours School in the *Bio-Chemistry of Fermentation*, which subject may also be offered as a subsidiary subject for the degree of B.Sc. Special subjects in the Honours School are: (i.) *Chemistry and Physiology of Malting, Brewing,*

*Distilling and Vinegar Manufacture*; (ii.) *Fermentation and Bacteriology*; (iii.) *Agricultural Chemistry*; (iv.) *Chemistry of Food and Drugs*. *Civic Design and Town Planning*. A systematic course of lectures and class work is given, provided by the Bournville Village Trust. In the Winter Term instruction is given in Drawing-office and Field Work; in the Spring Term in problems in Site Planning, in which term special series of lectures are also delivered by authorities on various aspects of Town Planning. *Criminology*. A post-graduate course on "Crime and Punishment" is conducted during one term. Special demonstrations in connexion with the subject are given at local Prisons, Asylums, and Mental Deficiency Colonies. *Hydro-electric Engineering*. Facilities are provided for students who desire to specialize in this subject. The B.Sc. degree may be taken with Honours in Hydro-electric Engineering. *Industrial Law*. A systematic course of lectures and tutorials is given in problems of Modern Industry, National and Local Government, etc., to students nominated by Trade Unions, who read for the Industrial Certificate awarded by the University. *Mental Diseases*. A special Department is established in connexion with the Asylums Committee of the City of Birmingham for research in Mental Diseases. *Mine Rescue*. A special lecturer in the subject of Mine Rescue Work delivers a course of lectures, demonstrations in the Laboratory, and in the Model Mine in the grounds of the University, are given during one term. The Watch Committee of the City of Birmingham requires the attendance on these courses of members of the City Fire Brigade. *Mining Research*. A department responsible for research in problems relating to Oil, Coal, and Metal Mining is established under the direction of Dr. J. Scott Haldane, F.R.S., who has been appointed an Honorary Professor in the University. *Music*. An Honours School has been established in this subject, and a degree of M Mus instituted. *Social Study*. Systematic instruction with practical training for administrative officials, philanthropic workers, Welfare supervisors, trade union and other officials, the clergy, members of local governing bodies. The course leads to a University Diploma in Social Study.

#### UNIVERSITY OF BRISTOL

A. Schools and Departments: *Agriculture, Dental Science, Education, Engineering, Medicine, Public Health*.

P. The degree of Ph.D. is open to any graduate in the several faculties in accordance with the regulations

#### C. Specialist Courses:

*Agriculture and Horticulture*. Agricultural and Horticultural Research Station at Long Ashton, Somerset, and Fruit and Vegetable Preservation Research Station at Chipping Campden, Gloucestershire. The Royal Agricultural College, Cirencester, is also associated with the University for tuition for the degree of B Sc.(Agr.). *Colloidal Chemistry*. Special attention has for many years been devoted to the subject of colloids in both undergraduate and graduate courses, and a school of research is engaged in carrying through an extensive investigation based especially on soaps and nitro-cellulose. *Domestic Science*.

A special curriculum for the degree of B.Sc. *Human Morphology* includes Physical Anthropology, and students have the opportunity of taking part in excavations in caves in the Mendip Hills which were occupied by prehistoric man. *Social Study*. Systematic instruction with practical training for officials in national, municipal, or rural administration, members of Local Government bodies, the clergy and philanthropic workers. The course leads to a University Testamur and Higher Testamur in Social Study.

### UNIVERSITY OF CAMBRIDGE

For information regarding courses leading to the Ph D and other higher degrees and specialist courses, the Lecture Lists published in the *Reporter* early in each term and the pamphlet on Facilities for Study and Research (The University Press) should be consulted

### UNIVERSITY OF DURHAM

#### DURHAM DIVISION

A Schools of *Theology, Education* (training of teachers and preparation for the M Ed degree).

B Subjects in which the University is prepared to accept students for the Ph D. or other higher degree. No list published. Application for admission to courses of post-graduation study will be considered as and when received. The Pure Science Laboratories (opened in 1924) are well equipped for research

C. Subjects to which exceptional attention is given:

*Arabic* (Diploma granted to graduates and non-graduates) *Palæography* *Roman Antiquities in Britain* *Astronomy* (at the University Observatory)

#### COLLEGE OF MEDICINE

A Schools of *Medicine and Dentistry*.

B Facilities for advanced study and research are provided in almost all subjects of the medical course, but especially in *Bacteriology, Pathology* and *Physiology*. The Royal Victoria Infirmary and the Princess Mary Maternity Hospital afford ample material for clinical research. General and Special courses of post-graduation instruction in Medicine are conducted throughout the year.

#### ARMSTRONG COLLEGE

A. Schools of *Art, Architecture, Commercial Science, Engineering, Naval Architecture* and *Marine Engineering, Metallurgy, Mining, Agriculture, Education*.

B. Ph D. Applications for admission to courses of study and research for the Ph.D. degree will be considered as and when received

Special facilities for research are provided in Pure Science, Applied Mathematics, Naval Architecture, Zoology, Electrical Engineering, Agriculture and Economics.

C. Subjects to which exceptional attention is given :

*Fine Art and Music* for the Pass B A. *Architecture*. An Honours course covering five years (parts of the fourth and fifth to be spent in an architect's office). *Ancient History*. Special facilities for the study of Roman Britain. *Mechanical and Marine Engineering*. *Naval Architecture*. Special facilities for the study of high-speed engines and all problems connected with shipbuilding. *Agriculture*. The Department has under its control the Northumberland County Council Experimental Station. *Marine Biology*. The Dove Marine Laboratory, at Cullercoats, is part of the Zoological Department of the College ; available for research work.

### UNIVERSITY OF LEEDS

A. Schools and Departments of *Law, Medicine, Dental Science, Engineering, Metallurgy, Mining, Agriculture, Textiles, Colour Chemistry, Coal Gas and Fuel, Leather Manufacture, Education, Commercial Science.*

B Subjects in which the University is prepared to receive candidates for the Ph.D or other higher degrees :

ARTS Greek, Latin, French, German, Russian, Spanish, English, History, Philosophy, Economics, Geography, Education, Law, Commerce

SCIENCE: Mathematics, Physics, Chemistry, Zoology, Botany, Geography, Geology, Physiology, Human and Comparative Anatomy, Bacteriology

APPLIED SCIENCE: Civil Engineering, Mechanical Engineering, Electrical Engineering, Mining Engineering, Gas Engineering, Fuel and Metallurgy, Chemistry of Leather Manufacture, Colour Chemistry and Dyeing, Agriculture, Textiles

MEDICINE. Approved subjects of Medicine, Surgery, and Dentistry.

C. Specialist Courses :

*Social Organization and Public Service* Two years' course for Diploma, Economics, Industrial and Social History, Social Psychology, Local Government, Public Health and Hygiene, Administration, Social Ethics, Statistics, Labour Organization, etc. *Commerce* One year's course for post-graduate Diploma *Educational Administration*. Two sessions' course for Diploma *Animal Biology*. Diploma for Teachers on one year's course *Marine Biology* Research Station at Robin Hood's Bay. *Colour Chemistry and Dyeing* Courses of lectures with practical work in the special laboratories of the Department extending over four years for Honours B Sc or (for immatriculated students) for Diploma, three years for Pass B Sc or Diploma; five years' part-time course for dyers' apprentices *Coal Gas and Fuel Industries with Metallurgy*. Courses of lectures with practical work in the special laboratories of the Department for Honours degree, Ordinary degree or Diploma. Two years' post-graduation course for Diploma in (i.) Gas Engineering, (ii) Fuel and Metallurgy. *Mining*. Degrees and Diplomas recognized for Colliery Manager's Certificate. Special facilities for research in newly equipped laboratories. *Leather*

*Industries.* Courses of lectures with practical work in the special laboratories of the Department for the Honours degree, Ordinary degree, M Sc., and Diploma. Procter International Research Laboratory. *Textile Industries.* Courses of lectures with practical work in the special laboratories of the Department for B Sc in Textiles or B Com. with Textiles as principal subject, one year post-graduation course for Diploma, three years' course for Diploma. *Agriculture.* The Department conducts, on behalf of the County Councils of the three Ridings, the whole scheme of agricultural education in Yorkshire. The laboratories (Agricultural Chemistry, Botany, Bacteriology and Zoology) are open for research, or for special technical training. A special feature is that of Agricultural Economics. *Public Health.* Post-graduate Diploma course of at least twelve months, including clinical practice and administrative experience. *Psychological Medicine.* Post-graduate course of at least two years for Diploma, including experience in a Mental Hospital. *Nursing* Course of instruction together with four years' hospital training for Diploma. May be supplemented by a year's course of instruction for Sister Tutors. *Dentistry.* Course for Degree and Diploma conducted in University and Infirmary. New building just opened for Dental School and Hospital.

#### UNIVERSITY OF LIVERPOOL

A. Schools and Departments. *Law, Medicine* (including *Tropical Medicine and Public Health*), *Dental Science, Veterinary Science, Civic Design and Town Planning, Architecture, Naval Architecture, Social Sciences and Administration* (*Geography, Economics, Commerce, Social Science*), *Engineering* (including *Marine Engineering*), *Metallurgy, Education.*

B. Subjects in which the University is prepared to receive students for the Ph D. degree. the following departments have been approved. The Ph.D committee is prepared to receive applications for recognition from any other department in which candidates may desire to work.

ARTS. *Greek, Methods and Practice of Archæology* (*Archæology of Palestine*), *Philosophy, Mediæval History, English Literature, German.* SCIENCE. *Chemistry* (*Inorganic, Organic, Physical and Industrial*), *Mathematics, Physics, Zoology, Botany, Geology, Oceanography.* MEDICINE. *Physiology, Bio-Chemistry, Entomology, Bacteriology.* ENGINEERING. *Mechanical Engineering, Thermodynamics of Heat Engines, Strength of Materials, Electrical Engineering, Civil Engineering, Naval Architecture, Metallurgy.*

#### C Specialist Subjects

FACULTY OF ARTS. *Palæography and Diplomatics* Course A: The outlines of Latin Palæography from the earliest times to about 1600. Course B: English Hands, especially Diplomatic, to about 1600. Course C. French Hands, Book and Diplomatic, to about 1500. Similar Courses will be provided, if required, for candidates in the Honours Schools of German, Italian and Spanish. Course D: The outlines of Diplomatics. Students have access to the Library of the School of

Local History and Records, which has a palæographical section containing a large collection of facsimiles of MSS of all periods. *Classical Archaeology*. *Course A*: Outlines of the Antiquities of Greece. *Course B*: Greek Art and Antiquities of the Fifth Century B.C. *Course C*: Roman Art and Antiquities from 145 B.C. to A.D. 14. *Course D*: Ancient Art, with special reference to architecture and sculpture. *Course E*: Classical ornament and symbolism. *Methods and Practice of Archaeology*. *Course F*: Methods in Archaeological Research. *Egyptology*. *Course G*: History, Art and Archaeology of Ancient Egypt. Ancient Egyptian Language. Associated with the Department of Archaeology is an Institute of Archaeology containing a library and museum of Comparative Archaeology. The University awards a Certificate and Diploma in Archaeology. *Fees*. Courses: Diploma, £10; Certificate, £30, Examinations. Diploma, £4; Certificate, £3. *Celtic*. *Course A* Modern Welsh Language and Literature, Elements of Welsh Phonology, Phonetics. *Course B*: Early Modern Welsh Language and Literature, Outlines of Historical Grammar. *Course C*: Mediæval Welsh Language and Literature, Outlines of Historical Grammar. *Course D*: History of Welsh Literature. *Course E*: Spoken Welsh. *Course F*: Teachers' Course in Language and Literature, Modern Welsh Language and Literature, Elements of Welsh Phonology; Phonetics. Special forms of literature, lyrical poetry from the sixteenth century, and narrative prose from the eighteenth century. *Course G*: Modern Historical Sources in the Welsh Language. *Course H*: Mediæval Historical Sources in the Welsh Language. *Course I*: Modern Literary Welsh Language. *Course J*: Mediæval Welsh Language. *Course K*: Special Studies in Welsh Language. *Course L*: Special Studies in Welsh Literature. *Music and Art of the Theatre*. Short courses, open free to the public, are given each year by special lecturers. *Social Science*. The School provides a course of study covering one or two years leading to a Certificate and Diploma in Social Studies. The Diploma Course is designed for University graduates and others who can give evidence that their education has reached a similar standard. *Fees*. Course for the Diploma (2 yrs.), £28; Examination, £3. Course for the Certificate (2 yrs.), £28; Examination, £3. *Civic Design and Town Planning*. The Department (established 1909) is part of the School of Architecture and is intimately associated with it. The University grants a Certificate and Diploma in Civic Design. The Course for the Diploma meets the requirements of qualified students who desire to pursue their studies in Town Planning to a stage demanding a trained artistic sense and a knowledge of the problems involved in civic composition. There are special Lecturers on Landscape Design, the Law of Housing, and Civic Engineering. *Fees*: Course for the Certificate, £10; Examination, £3. Course for the Diploma, £35; Examination, £6: 5s. M.A. and Honours B.A. in *Jurisprudence*.

FACULTY OF SCIENCE. *Oceanography*. The staff includes Honorary Lecturers in Sea Fisheries, in Economic Ichthyology and in Marine Biology. The Oceanographic Laboratory is open for research work to graduate students. The Port Erin Biological Station is also available for such work. *Tidal Institute*. Founded in 1919 for research into all

aspects of knowledge of the Tides. Graduates are admitted as research workers under the guidance of the Director.

**FACULTY OF MEDICINE.** *Tropical Medicine.* The School of Tropical Medicine (founded in 1898) trains medical men proceeding to the Tropics in the subject of tropical diseases; conducts researches and organizes prophylactic measures against tropical diseases. The University awards Diplomas in Tropical Medicine and in Tropical Hygiene. Candidates must hold a registrable qualification to practise Medicine, and candidates for the Diploma in Tropical Hygiene the D T M in addition. *Fee* for the D T M Course, £21, for Examination and Diploma, £6:5s. *Fee* for the D T H. Course, £10:10s.; for Examination and Diploma, £6:5s. *Medical Radiology and Electrology.* The University awards a Diploma in Medical Radiology and Electrology. Candidates must hold a registrable qualification to practise Medicine. *Fee* for the Course, £24:5s. Examination and Diploma, £6:5s. in one examination, or £7 6s. if paid in two parts. *Orthopædic Surgery.* The University awards a Degree of Master of Orthopædic Surgery. *Fee* for the Course, £41, Examination and Degree, £10. *Public Health.* The City of Liverpool and its Port offer exceptional advantages for the study of Public Health, and every facility is afforded for training in sanitary science and State Medicine. The City Laboratories and University School of Hygiene are contained in one building which houses the City Analyst and City Bacteriologist, together with the University staff in Public Health. The University confers the degree of Master of Hygiene and a Diploma in Public Health. *Fees.* Degree of Master of Hygiene, 2 yrs., £80; Examination and Degree Fees, £15:10s. Diploma in Public Health, Course, £45, Examination and Diploma, £6:5s. *Dentistry.* In addition to the facilities afforded by the Medical School for certain subjects of the Dental curriculum, the University possesses a Dental School, recently built, the Dental Hospital adjoining is intimately associated with the Dental School. *Veterinary.* Students in the Veterinary School are prepared for (1) the Diploma of Membership (M R C V.S.) and the Fellowship (F.R.C.V.S.) of the Royal College of Veterinary Surgeons (2) The Degrees of Bachelor of Veterinary Science (B.V.Sc.), Doctor of Veterinary Science (D.V.Sc.) and the Doctorate in Philosophy (Ph D.)

## UNIVERSITY OF LONDON

A SCHOOLS of *Theology* (King's College Theological Department, Hackney and New Coll., Hampstead, Wesleyan Coll., Richmond, St. John's Hall, Highbury), *Law* (University Coll., King's Coll. and the School of Economics jointly); *Medicine* (12 Hospital Medical Schools, University and King's Colleges (*vide supra*), London School of Hygiene and Tropical Medicine, Lister Institute of Preventive Medicine, Royal Army Medical Coll., Royal Naval Coll., Greenwich, Bethlem Royal Hosp., Maudsley Hosp., Cancer Hosp.); *Dental Science* (11 Hospital Dental Schools, *vide supra*); *Veterinary Science* (Royal Veterinary Coll.); *Music* (Royal Academy, Royal Coll., Trinity College); *Art* (University Coll., Slade School, Goldsmiths' Coll.); *Dramatic Art*



(East London Coll.); *Civic Art and Design*, and *Town Planning* (Univ. Coll., Bartlett School); *Ecclesiastical Art* (King's Coll.); *Architecture* (Univ. Coll., Bartlett School); *Journalism* (Univ., King's and Bedford Colls., and Sch. of Econ. jointly), *Librarianship* (Univ. Coll.); *Economics and Political Science* (School of Economics); *Social Science and Administration* (School of Economics); *Commercial Science* (School of Economics), *Engineering* (Univ. Coll., King's Coll., Imperial Coll., East London Coll.), *Metallurgy* (Imperial Coll.), *Mining* (Imperial Coll.), *Mining and Technology of Petroleum* (Imperial Coll.); *Mining Geology* (Imperial Coll.); *Agriculture and Estate Management* (Lawes Agricultural Trust, Rothamsted); *South-Eastern Agricultural College*, (Wye), *Education* (King's College, London Day Training College, Goldsmiths' College, Maria Grey Training College, St. Mary's College, Paddington); *Pharmacy* (School of Pharmacy).

B. Students studying for the Ph.D. Degree (Internal) have been accepted in the following subjects :

*Aerodynamics*, *Aeronautics* (v Maths below), *Agricultural Chemistry*, *Agricultural Parasitology*, *Anthropology*, *Arabic*, *Archæology*, *Astronomy*, *Bacteriology*, *Bantu Languages*, *Bengali*, *Bio-Chemistry*, *Biology*, *Botany*, *Chemical Kinetics*, *Chemical Engineering*, *Chemical Technology*, *Chemistry*, *Chinese*, *Colloidal Physics*, *Commerce*, *Currency and Banking*, *Dietetics*, *Economics*, *Education*, *Egyptology*, *Electro-Chemistry*, *Embryology*, *Engineering*, *English*, *Entomology*, *Ethics*, *Ethnology*, *Foreign Affairs*, *French*, *Fuel Chemistry*, *Fuel Technology*, *Genetics and Cytology*, *Geochemistry*, *Geography*, *Geology*, *German*, *Helminthology*, *Hindu Literature*, *Hindu Philosophy*, *History*, *History of Science*, *Hydraulics*, *Islamic History*, *International Relations*, *Italian*, *Jain Literature*, *Latin*, *Literature* (Comparative), *Mathematics* (including Maths. as applied to Aeronautical Science), *Metallurgy*, *Metaphysics*, *Meteorology*, *Mining*, *Morphology*, *Music*, *Muslim Jurisprudence*, *Mycology*, *Persian*, *Petrology*, *Philology* (Comparative), *Philosophy*, *Phonetics*, *Physics*, *Physiology*, *Plant Physiology*, *Political Science*, *Protozoology*, *Psychology*, *Puranic Literature*, *Rabbinic*, *Religion* (Comparative Ethics of), *Religions* (Philosophy of), *Sanskrit*, *Slavonic Studies*, *Sociology*, *Soils*, *Soil Bio-Chemistry*, *Spanish*, *Spectroscopy*, *Statistics*, *Thermodynamics*, *Theology*, *Transport*, *Zoology*

#### C. UNIVERSITY COLLEGE—Specialist Courses :

[Fees for lectures or seminars are generally at the rate of from 3 to 4½ guineas for the session or 1½ guineas a term for one hour per week.]

*Physical and Cultural Anthropology*. *Archæology* (a) Greek Art and Architecture. (b) Epigraphy, History of Art, Antiquities and Mythology. (c) History of Ancient Sculpture. (d) Surroundings of Greek and Roman Life. *Assyriology*. *Astronomy*. (a) Practical Astronomy. (b) Spectroscopy. (c) Modern Stellar Astronomy. (d) Advanced Astronomy for graduates. *Celtic*, Old Irish Literature. *Chemical Engineering*. Special Course (2 sessions) in Scientific Principles underlying Chemical Processes on technical scale. *Danish*, v. Scandinavian. *Dutch History, Language and Literature*. *Egyptology*. Training Course, 2 sessions, including Language, Art, Anthropology.

Evening School, Hieroglyphics and Egyptian Religion, Manners and Customs. *Engineering*. Post-graduation courses in all branches, including Railway Engineering, Waterways, Harbours and Docks, Reinforced Concrete, Photographic Surveying, High Frequency Electric Measurements, Electro-Communications and Electrical Design. *Eugenics*, v. Statistics. *History*. Post-graduation seminars in (a) Sources of English History in the Fourteenth, Fifteenth and Sixteenth Centuries, with practical work illustrating methods of Historical Research (b) History of the Christian Church. (c) English Political History (d) Naval History. (e) History of London. (f) Colonial History. (g) Diplomatic History. (h) American History. (i) Modern French History. (j) Dutch History and Institutions. (k) The History of the Great War, 1914-18. *History of Medicine*. Law. (a) Comparative Customary Law. (b) Roman-Dutch Law, with seminar. (c) Constitutional Law (d) Muhammadan Public Law and Turkish Land Law (e) Hindu and Muhammadan Law. *Librarianship*. (a) Bibliography. (b) Palæography and Archives. (c) Cataloguing, Indexing, and Classification. *Military Studies Norwegian*, v. Scandinavian. *Comparative Philology*. 1 History and Principles. 2. Comparative Syntax of Greek and Latin. *Phonetics*. 1. English Phonetics for Foreign Students 2 English Phonetics for English Students 3. Phonetics of French, German, Italian, Welsh, Danish, Swedish, Dutch, and other Languages 4 General Phonetics (advanced) and Research Work. 5. Spoken English for Foreign Students. *Psychology* (a) A new system of General Principles illustrated by explanatory mental tests, with seminar and laboratory course on testing individual abilities, etc (b) The Sense and Nervous System. (c) Recent Experimental Results. (d) Fundamental Problems and Controversies. (e) Mental Measurement, with Exercises. (f) Physics of Experimentation. (g) Animal Psychology. (h) Comparative Psychology of Primitive Races (j) Psychology of the Learning Process (k) Child and Comparative Psychology (l) Psycho-analytic Study of Conduct and Character. *Scandinavian Studies*, Danish, Norwegian and Swedish, Junior or Senior Class, 1 g. for session, Post-graduation work, Literature of nineteenth century, Old Norse. *Statistics*, Applied, and Eugenics (Galton Laboratory for National Eugenics and Biometric Laboratory), Laboratory work (trained students only).

List of Departments other than those named above in which post-graduation courses are provided (v. special pamphlet obtainable from Secretary), *Latin*, *Greek*, *Hebrew*, *English*, *Romance Philology and French*, *Germanic Philology and German*, *Italian*, *Political Economy*, *Geography*, *Philosophy*, *Principles*, *History and Method of Science*, *Tibetan*, *History of Art*, *Architecture* (including *Town Planning*), *Mathematics*, *Pure and Applied*, *Physics*, *Chemistry*, *Geology*, *Botany*, *Zoology and Comparative Anatomy*, *Embryology and Histology*, *Physiology and Bio-Chemistry*, *Hygiene and Public Health*.

#### KING'S COLLEGE—Specialist Courses :

[Fees for Occasional Classes and Seminars are usually at the rate of £1:11:6 per term or £4:4s. for the session for one hour a week in day classes, and £1 per term or £2:10s. for the session in evening classes.]

Composition fees for full-time Post-graduate Courses vary from £8 : 8s. to £22 : 1s. p.a

**FACULTY OF ARTS.** *English Language and Literature and Bibliography.* Evening School of English for post-graduation work, including special Four-year Course for Evening Students for the University Diploma. *Mediæval and Modern History.* Palæography and Diplomatic, Ecclesiastical History, Mediæval History, Russian History, Central European History, Imperial History, Historical Geography. *School of Slavonic Studies.* (a) Russian—full provision for all teaching to B A. Hons and higher degrees. (b) Slavonic Philology. (c) Polish Language and Literature (d) Czecho-Slovak Language and Literature. (e) Serbian Language and Literature. *School of Spanish Studies.* To B A. Hons and higher degrees Phonetics *Department of Portuguese.* *Modern Greek* Language and Literature, including Byzantine History and the History of Modern Greece. *Hebrew.* Classes for the Midrash and Talmud. *Psychology.* Special Courses in Educational Psychology, Psychotherapy and the Psychology of Advertising, and for the University Diploma. *Education* Secondary Teachers' Training Department. Post-graduation work

College Certificates are awarded in Spanish, Portuguese, Italian, Russian, Hebrew, Czecho-Slovak, Serbo-Croat, and Polish

**FACULTY OF THEOLOGY.** Seminars in Biblical and Rabbinical Hebrew, in the Philosophy of Religion and in Ecclesiastical History. Provision for the advanced study of the New Testament.

**FACULTY OF NATURAL SCIENCE** *Mathematics and Physics.* Thermionics, Radiation, Quantum Theory, Spectroscopy, Generalized Dynamics, Radio-activity, Atmospheric Electricity and Wireless Telegraphy *Chemistry* Optical Activity of Cyclic Compounds, Photo-Chemistry, Stability and Electrical Properties of Colloids, Electro-Chemistry, Carbon Compounds of Sulphur. *Zoology.* Special Research in Experimental Embryology, General Exp Zoology, Protozoa. *Botany* Cytology, Genetics

**FACULTY OF MEDICAL SCIENCE** *Physiology.* Research in Experimental Physiology, especially in relation to the Circulation. Bio-Chemistry of the Carbohydrates, Physical Chemistry of Blood, Histology of the Nervous System in health and disease

**FACULTY OF ENGINEERING.** Research in Heat Engines, including Steam and Internal Combustion Engines, Refrigeration, Strength and Elasticity of Materials, Hydraulics, Alternating Current Machines, High-tension and Non-Thermionic Amplification

Special Lectures on subjects of interest to advanced students.

#### IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY

[Including : THE ROYAL COLLEGE OF SCIENCE ; THE ROYAL SCHOOL OF MINES ; THE CITY AND GUILDS (ENGINEERING) COLLEGE. Specialized Courses are as follows, but advanced work and research are carried out in all Departments of the Colleges. Students have ready access to the Science Library, which is situated in the Royal College of Science, and to the Science Museums adjacent thereto. The Diploma of the Imperial College is awarded for approved advanced study and

research extending over not less than one year, and the higher degrees of London are open to students who register as internal students of the University.]

*Aeronautical Engineering*: Aerodynamics, Design lectures and class, Materials of Aircraft Construction, Construction and Strength of Aircraft, Engine Design, Airships, Meteorology, Air Navigation and Instruments, Dynamical Meteorology, Climatology *Biology*: Bacteriology, Pathology, and Physiology of Plants, Timber for Engineers and Architects, Fungi, Decay of Woods and its prevention, Fibres and Fibre-yielding Plants, Bio-Chemistry, Morphology, Problems of Heredity, General Entomology, Advanced Entomology, Economic Entomology. *Chemical Technology*: Technology of Fuel, Refractory Materials and Silicate Technology, High Pressure Gas Chemistry, Manufacture of Glass, Ceramics and Cement, Chemical Engineering, Electro-Chemistry and General Chemical Technology *Geology and Oil Technology*: Mining Geology, Engineering Geology, Geology of Road Construction and Maintenance, Microscopy of Refractory and Allied Materials, Lubrication and Lubricants, Physical Geology *Mathematics and Mechanics*: Thermodynamics, Kinetic Theory of Gases, Motion of Viscous Fluids, Theory of Relativity, Electromagnetic Theory. *Technical Optics*: Physical Optics, Optical Designing and Computing, Workshop and Testing Room Methods, Vision and Aids to Vision, Construction Theory and Use of Optical Measuring Instruments, Instrument Drawing, Advanced Designing and Computing, Mechanical Design of Instruments, Measurement and Recording of Light, Colour and its Measurement, Ultra-Violet Microscope. *Physics*: Measurement of High Temperatures and Optical Pyrometry, Spectroscopy, Internal Combustion Engines *Mechanical Engineering and Motive Power*: Railway Engineering and Mechanical Transport, The Locomotive and Mechanical Transport, Railway Signalling, Electric Traction and Railway Electrification, Bridge Design and Permanent Way, Railway Administration and Economics *Civil Engineering*: Structural Engineering, Hydraulic Engineering, Geodesy, Public Works, Steel Bridges, Reinforced Concrete, Hydraulic Machinery *Electrical Engineering*: Electrical Machinery, Hydro-Electric Plant, Wireless Telegraphy and Telephony, Alternating Current Commutator Motors, The Organization of Electrical Manufactories, Design of Turbo-Generators, Transformer Practice and Insulation of Electrical Plant

Composition Fees are at the rate of £62:10s. per academic year for course work, and £22:10s. for research. They include membership subscriptions to the Unions and Clubs

#### EAST LONDON COLLEGE—Advanced and Specialist Courses:

*Aeronautics*: A special course suitable for those who desire to be trained as Aeronautical Engineers, arranged to run concurrently with the B.Sc (Engineering) Course. It includes work with an experimental wind channel and special instruction in the construction and design of Aeroplanes. Among the post-graduation courses are *English Language and Literature, French Language and Literature, Modern History, Ad-*

vanced and Research work in *Mathematics, Chemistry, Physics, Botany, and Engineering*, for which there are special facilities. Classes are arranged on the history of the drama and the history of the stage. Fees—£22 : 10s. for the session.

#### BIRKBECK COLLEGE—Advanced and Specialist Courses :

Evening Post-graduation courses in *Classics, English, French, German and Italian Language and Literature, History and Geography* ; facilities for advanced work and Research in *Mathematics, Chemistry, Physics, Botany, Zoology and Geology* Evening courses for Academic Diploma in *Geography*.

#### SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

[The name of the subject is followed by the number of lecture hours, and the term or terms (Michaelmas, Lent, Summer) in which the lectures are given. The fee is generally at the rate of about £1 : 10s. for ten hours for day students, £1 for ten hours for evening students.]

*Accounting and Business Methods* Accounts of Traders and Companies, Parts I and II (28 or 54, M L S), Business Organization, Parts I and II (16, M.S), Works and Factory Accounting and Costing (15, L), Secretarial Practice (30, M L), *Banking and Currency* Principles of Currency (20, M L), Theory of Banking (6, S); The Stock Exchange, Speculative Markets, and Dealing (6, S), The History of Currency and Banking, with special reference to England (15, L S), The Foreign Exchanges and International Banking (5, S); Banking and Finance in the Principal Foreign Countries (40, M L);—(The USA, South America, and the Far East (20), and Europe (20)); Banking in the British Dominions (9, L), Recent Monetary History and Monetary Controversies : an Introduction to the Monetary History of the Modern World (6, M.); *Commerce and Industry* : British Foreign Trade (8, S), Constitution, Production and Manufacture of Food Stuffs (15, M L), Industrial Organization (20, M L); The Financing of Industry (6, S), Raw Materials of Industry and Trade (20, M.L); International Trade and Traffic of the Great Ports of the World (25, M L S); General Trade and Transport Relations of the European Countries (10, L); The Organization of Commerce and Industry in Europe (50, M L S), The Organization of Commerce and Industry outside Europe (25, M L S.), The Trade of India (10, L); Trade of Africa and Australasia (15, L S); Trade of India and the Far East (15, L S); Trade of North and South America (15, L.S); Constitution, Production, and Manufacture of Materials (Textiles) (15, L S); The Constitution and Business Organization of Public Services (15, L.S.); Indian Production (10, M); Indian Finance (20, M L); Marketing Organization (9, S), *Economics* : Elements of Economics : (a) General Principles (26, M.L), (b) Money, Banking and International Exchange (14, L S); (c) Trade and Industry (14, L S); Modern Industrial Problems (20, M L), Principles of Economics (50, M L S.); Comparative Economic Theory (18, L S); Theory of Public Finance (9, S); Economic Problems of War (12, M L.); Collective Agreements in Industry (6, L); Problems of Industrial Production (6, S.); *Ethnology* :

Ethnology (9, M.) ; Prehistoric and Early Man (8, M.) ; Living Races of Man and their Distribution (8, L.) ; Religious and Magical Beliefs and Practices of the Pagan Tribes of the Anglo-Egyptian Sudan (6, L.) ; Introduction to Social Anthropology (16, M.L.) ; Discussions on Social Anthropology (20, M.L.) ; Comparative Study of Language and Culture (S.) ; The Useful Arts of Primitive Peoples (7, M.) ; Social Anthropology (25, M L) ; Primitive Religion and Magic (16, L S.) ; Political Institutions of Primitive Peoples (8, S) ; The Pueblo Indians in Arizona and New Mexico (16, L S) ; *Geography*. Commercial Geography (30, M L S) ; General Regional Geography (32, L S) ; General Regional Geography (57, L S) , General Regional and Economic Geography of the Southern Continents (56, M L S) ; Detailed Geography of North America (60, M L S.) ; Detailed Geography of Europe (60, M L S) ; Historical Geography of the Mediterranean ; Historical Geography of England (10, L) ; Historical Geography of France (9, S) ; Geography of London (10, M L S) ; Map Classes (80, M L) , Economic Geography (25, M.L S) ; *History* : History of the Modern World (26, M L S) , The Growth of English Industry (25, M L S) , English Economic History (25, M L S) ; Economic Development of the Overseas Dominions (25, M L S) ; English Economic Development and Policy (25, M L S) , The Economic Development of the Great Powers (25, M L S) ; The Political Position of the Great Powers (30, M L S) , Economic History from 1485 (25, M L S) ; Constitutions of the Great Powers (20, M L) , Social and Economic History of Tudor England (30, M L S) , Mediæval Trade (6, L) ; Economic History of Western Europe in the Middle Ages (30, M L S) , Mediæval Famine Records (45, M L S) ; English Constitutional History and Law since 1689 (20, M L) , Original Sources and other Materials for Advanced Studies in Economic and Social History (8, L) , *International Relations* History of the Development of International Intercourse (29, M L S) ; Political Aspects of the Society of States (10, M) , International Relations (20, M L) ; International Institutions (15, M L) , Inter-Imperial Relations of the British Empire (6, M) ; The International Labour Office (9, S) , Pacific Methods of Settling International Disputes (20, M L) , International Technical Government (5, L.) ; The Machinery of Diplomacy (9, S) , History of International Arbitration (10, L) ; The Work of the Permanent Court of International Justice (6, S) , Problems of Colonial Government (10, L) ; The Protection of Minorities (5, M) ; Economic Aspects of International Relations (10, M L) , Cultural Contacts between the West and Primitive Peoples (17, M L) , Cultural Contacts between the West and Other Civilizations (5, S) ; Government of the British Empire—outside the Dominions (9, L.) ; Constitutions of the British Empire—Self-Governing Dominions (7, S) ; *Law* : Industrial Law (25, M L S) ; Elements of Industrial Legislation (15, M L) ; Comparative Industrial Law (5, S) ; Commercial and Industrial Law (29, M L S.) ; Common Law—Contracts (37, M L) ; Criminal Law and Procedure (30, M L) ; Law of Property (45, M.L S) , History of English Law (44, M L S) ; History of English Law (with special reference to Economic Conditions) (6, S.) , Conveyancing (29, M L S.) ; Mercantile Law—Special Subjects (29, M.L S) ; Constitutional Laws of the British

Empire (20, M.L.); Elements of English Law (44, M.L.S.); Elements of Commercial Law (52, M.L.S.); The Law of Banking (15, M.L.); Maritime Law (15, L.S.); The Law of Marine Insurance (10, M.); The Law of Carriage by Railway (20, M.L.); Constitutional Law and History (42, M.L.S.); International Law (Peace) (26, M.L.S.); International Law (War and Neutrality) (26, M.L.S.); International Law Cases (9, S); Code Civil (36, M.L.S.); Conflict of Laws (30, M.L.); Law of Local Government (10, L); *Logic, Psychology, and Philosophy*: Logic (58, M.L.S.); Scientific Method (14, L.S.); Industrial Psychology and Physiology (5, L); Industrial Psychology (30, M.L.S.); The Psychological Theory of Law (4, M); General Psychology (25, S); *Politics and Public Administration* The British Constitution (30, M.L.); Principles of Administrative Law (8, L); Executive and Judiciary Problems (14, L.S.); Parliament and its Problems (20, M.L.); Political and Social Theory (19, L.S.); Central Government (5, S); French Political Ideas, 1789-1848 (6, S); Political Ideas of the Ancient World (10, M); European Political Ideas, 1500-1689 (10, L); Political Ideas since 1689 (15, M.L.); Political Theories (25, M.L.S.); The French Constitution (10, M); French Public Administration (15, L.S.); The Government of French Colonies (8, M); German Political Ideas, 1789-1848 (5, S); Local Government Problems (18, L.S.); Comparative Government Problems (15, M.L.); The Constitution of the United States (6, L); The Constitution of Germany (6, S); American Political Ideas (to the Civil War) (6, S); Communistic Legislation in Russia (4, M); Marxism in Russia (3, S); *Social Science and Administration*. Introduction to Social Science (6, M); Introduction to Social Philosophy (19, M.S.); Problems of Social Administration (20, M.L.); Problems of Modern Industry (20, M.S.); Social Developments from 1760 (30, M.L.S.); Physiology (30, M.L.S.); Introduction to Psychology (9, S); Machinery of Government (10, M); Psychiatry (10, M); *Sociology*. Comparative Social Institutions (20, M.L.); Social Philosophy and Psychology (20, M.L.); Social Psychology (20, M.L.); Comparative Ethics and Religion (20, M.L.); Introduction to the Study of Society (20, M.L.); Ethics (16, L.S.); Biological Factors in Social Evolution (8, S); Social Rights and Duties (12, S); The Family (18, S.); *Statistics and Mathematics*: Introduction to Statistics (10, M.); Mathematics Preparatory to Statistics (60, M.L.S.); Statistical Method (25, M.L.S.); General Statistics (30, M.L.S.); Advanced Statistics (29, M.L.S.); Current Statistical Questions (5, L); Advanced Mathematics (26, M.L.S.); Business Statistics (50, M.L.S.); *Transport*: Organization of Transport (26, M.L.S.); Economics of Transport (26, M.L.S.); Railway Statistics (10, L); Commercial Railway Economics (20, M.L.); Operating Railway Economics (20, M.L.); General Economics, with special reference to Transport (10, L); Comparative Economics of Inland Transport (20, M.T.); Law of Carriage by Railway (20, M.L.); Railway Accounts (10, L); Railway and Commercial Geography of the United Kingdom (20, M.L.); Transport and Storage of Commodities of a Perishable Nature (7, L).

The School affords special facilities for research in Economics, Law and Political Science. The Library, which is one of the largest in London,

includes the British Library of Political Science, the Fry Library of International Law, and the Schuster Library of Comparative Legislation. There are separate reading-rooms for the different departments. Research students are advised and directed in their research by the senior members of the staff. A large number of seminars are held.

#### SCHOOL OF ORIENTAL STUDIES

Teaching is provided with opportunities for research in more than 45 languages; in the *history, religions, and customs* of Oriental and African peoples; *Epigraphy, Comparative Philology; Phonetics*. Fees: For separate courses, 8 gs to 18 gs. Composition, £21 a session

#### INSTITUTE OF HISTORICAL RESEARCH

The Institute is the University Laboratory of History devoted exclusively to post-graduation work. It is open to historians, archivists, teachers, and research students from approved universities.

*Introductory Courses.* On the Sources of English History in the Thirteenth and Fourteenth Centuries, Th 3 30-4 30. The Sources of English History in the Fifteenth and Sixteenth Centuries, with practical work illustrating methods of Historical Research, M 5 15-6 15. The Sources of English and Colonial History in the Eighteenth and Nineteenth Centuries, M 5 30-6 30. The Sources of the History of British India, W 5-6. Work on Archives, especially the Public Records, Five lectures and demonstrations, M 5 30-6 30. Reading of Dutch Historical Texts, W 4-5. *Seminars* Greek Palæography, Th 5-6 (or 7-8) Latin Palæography, Th 6-7. The History of England in the Reigns of Edward I and Edward II, Th 5-6. Trade and Industry in the Later Middle Ages, M. 7 30-8 30. The History of London in the Fifteenth and Sixteenth Centuries, W 5 30-6 30. English Constitutional History in the Fifteenth and Sixteenth Centuries, Tu 5 15-6 15. Manorial Administration in the Fourteenth and Fifteenth Centuries, Th 5 30-6 30. Scotland in the Sixteenth Century, Th (Time to be arranged). English Economic History in the Seventeenth Century (Time to be arranged). English History, 1603-1660, W. 4 30-5 30. Colonial History: (a) The African Trade, 1660-1837. (b) British North America and the West Indies, 1763-1837, Tu. 5 45-6 45. Diplomatic History in the Seventeenth and Eighteenth Centuries, W 5 45-6 45. English History, 1660-1760, W. 5-6. Modern French History (Time to be arranged). British India, 1773-1858, Tu 5-6. The History of the United States since 1783, W. 5-6. The Eastern Question in the 'Seventies, W. 5 30-6 30. For further information regarding other seminars contemplated apply to the Secretary of the Institute, Malet Street, W C 1

#### BEDFORD COLLEGE FOR WOMEN

Facilities for post-graduation work in Science and in Arts include Pilcher Research Laboratory and Sargent Laboratory of *Plant Physiology* and a Botany garden, exceptionally well equipped *English, French* and *Classical* Libraries, specialist courses for Univ. Diploma in *Journalism* and Academic Diplomas in *Geography* and *Applied Psychology*, College and Ministry of Health's certificates in *Social Studies*. Organized



post-graduation courses in French, German, Spanish, Modern History, Latin, Mathematics, Botany, Chemistry, Physics. Composition fees for p.-g. and diploma courses. Fees for separate courses of lectures held once a week—2½ gs. per term.

#### KING'S COLLEGE OF HOUSEHOLD AND SOCIAL SCIENCE

Post-graduation classes in *Physiology, Hygiene, Bacteriology, Household Arts, Applied Chemistry*, in preparation for Certificate

#### JEWS' COLLEGE

Rabbinic Literature, Jewish Theology, Jewish History and Literature.

#### SOUTH-EASTERN AGRICULTURAL COLLEGE, WYE

A. Schools of Agriculture (British and Colonial) and Horticulture (Commercial Fruit Growing and Market Gardening)

B. Facilities are provided for special research work in Agricultural Economics, Economic Entomology and Economic Mycology.

#### ROTHAMSTED EXPERIMENTAL STATION, HARPENDEN

Laboratories, agricultural library, and experimental farm of 300 acres. Devoted exclusively to research in problems connected with the study of soil and the growing plant in health and disease. The Station does no work on plant-breeding, animal nutrition, agricultural economics, etc. Departments. Bacteriology, Botany, Chemistry, Fermentation, General Micro-Biology, Insecticides and Fungicides, Physics, Plant Pathology (Mycology and Entomology), Statistics. Laboratories also for Algology and technique of Field Experiments. Permanent scientific staff numbers about 40. Provision for post-graduate workers who have already had the necessary training in pure science. Recognized for M.Sc., Ph D., & D.Sc. London, and M.Sc., Ph D. Cambridge. Special facilities for gaining experience in field work and for studying methods of agricultural investigation are afforded to graduates proceeding to take agricultural appointments in this country or overseas, and also to officers of Agricultural Departments of the Empire and others engaged in scientific agriculture overseas who, when on leave in this country, may wish to study special problems, to consult the literature, to prepare reports, etc. Facilities are available for investigations not directly connected with agriculture. No fees charged to voluntary workers for the supervision of their work, but a charge is made for apparatus, chemicals, etc., amounting to from £2 : 10s. to £5 a month ordinarily.

#### BATTERSEA POLYTECHNIC

Facilities for advanced study and research in *Pure Science* and in various branches of technology, e.g. *Chemical and other branches of Engineering, Applied Bacteriology, Oils, Fats, Waxes, Mineral and Lubricating Oils, Papermaking, and Testing*. Post-graduation evening courses in Chemical Engineering, etc., have been organized. Special courses in Domestic Science, Hygiene, and Public Health work.

#### NORTHAMPTON POLYTECHNIC INSTITUTE, FINSBURY

Facilities for post-graduation study and research in *Ophthalmic Optics, Electro-Chemistry* and in *Engineering (Mechanical, Electrical, Radio, etc.)* are provided.

## NORTHERN POLYTECHNIC

Facilities for advanced study and research in *Chemistry*, including *Rubber Technology*; *Physics*, including *Piano* and other musical instruments; *Building Materials*, including *Ferro-Concrete*.

SCHOOL OF PHARMACY, Pharmaceutical Society of Great Britain.

## SIR JOHN CASS TECHNICAL INSTITUTE

Facilities for advanced study and research in *Physics*, *Mathematics*, *Chemistry*, *Colloids*, and *Metallurgy*. Specialist courses in *Alternating Currents* and *Electrical Oscillations*, *Bio-Chemistry of Fermentation*, including *Brewing* and *Micro-Biology*, *Petroleum Technology*, *Gas Manufacture*, and *Physical Metallurgy*.

## MEDICAL SCHOOLS

Facilities for special research work are offered by the National Institute for Medical Research (Bio-Chemistry and Pharmacology, Exper. Pathology, Bacteriology and Protistology, Applied Optics, Applied Physiology, Medical Statistics), Lister Institute of Preventive Medicine (Bacteriology, Hygiene, Bio-Chemistry, Experimental Pathology, and Protozoology), Middlesex Hospital (Bio-Chemistry, Radiology and Electrolgy, Cancer Research), University College Hospital (Cardiography), Bethlem Royal Hospital (Neurology, Psychological Medicine), Maudsley Hospital, National Hospital for the Paralysed and Epileptic (Neurology), Royal London Ophthalmic Hospital (Ophthalmic Medicine and Surgery), Brompton Hospital for Consumption and Diseases of the Chest, London School of Hygiene and Tropical Medicine (Tropical Pathology, Medical Entomology, Helminthology, Protozoology, Noxious and Venomous Animals). For information regarding specialized courses arranged by the Fellowship of Medicine and Post-graduate Medical Association, application should be made to the Secretary, 1 Wimpole St., London, W 1.

## THE UNIVERSITY OF MANCHESTER

A Schools and Departments: *Theology*, *Law*, *Medicine*, *Public Health*, *Dental Science*, *Veterinary Science*, *Pharmacy*, *Music*, *Architecture*, *Commercial Science* (including *Administration*), *Engineering* (*Civil*, *Mechanical*, *Electrical* and *Sanitary*), *Metallurgy*, *Mining*, *Education* (including *Training of Teachers of the Deaf*), *Technology* (*Engineering*, *Chemistry*, and *Textiles*).

B Subjects in which the University is prepared to receive candidates for the Ph.D. degree:

Candidates for the Degree of Ph.D. have been accepted to date in the following subjects: *Archæology of Eastern Roman Provinces*, *Chemistry* (*Inorganic*, *Organic*, *Physical* and *Applied*), *Colloids*, *Comparative Literature*, *Economics*, *Elizabethan Drama*, *Engineering*, *Hellenistic Studies*, *History*, *Metallurgy*, *Neurology*, *New Testament Exegesis*, *Pharmaceutics*, *Philosophy*, *Physics*, *Physiology*, *Psychology*, *Semitic Studies*, *Sociology*, and *Zoology*.

The General Board of Faculties is prepared to receive applications for recognition from any other department in which candidates may desire to work.

## C. Specialist Courses :

*Faculty of Arts.* In addition to English, French, German, Greek (Hellenistic and Classical), and Latin, instruction is given in Arabic, Chinese, Hebrew, Italian, Provençal, Russian, Spanish, and Syriac. Moreover, special attention is given to the training of students in the methods of Historical Research, with instruction in Palæography and Epigraphy. Special facilities are afforded for research in Historical Cartography by the Mills and Booker collections of maps. There are bibliographical facilities for comparative study of literary theories of the time of the Renaissance.

The Rylands Library offers unique opportunities for advanced study in many branches of modern and ancient literature, for historical research, and for studies in divinity.

*Faculties of Science and Technology.* In addition to the subjects in which instruction is given in the Honours Schools of the Faculty of Science, special instruction and facilities for research are furnished in the scientific laboratories in the University buildings in *Botany*, *Economic* (including *Cotton Mycology*); *Crystallography*, *Electro-Chemistry* (Pure and Applied); *Industrial Psychology*, *Water Supply and Irrigation*; *Hydraulics and Hydro-electric Engineering*, and *Internal Combustion Engineering*; *Zoology*, *Parasitology*, and *Economic Zoology* (including *Cotton Entomology*). The recently established Graham Research Laboratory offers special facilities for the study of *Colloids*. In the Public Health Laboratories, York Place, courses are delivered and investigations may be undertaken in *Bacteriology* and *Preventive Medicine*, including *Veterinary State Medicine* and also *School and Factory Hygiene*. Research in *Mining* may be pursued either in the Faculty of Science or in the Faculty of Technology.

In the Faculty of Technology (College of Technology) complete plant is installed for practical and research work in *Brewing*, *Colouring Matters* (in the Dye Stuffs Research Laboratory), *Cotton Technology* (Spinning and Weaving, including Textile Testing), *Photographic Technology*, *Wireless Telegraphy* and *Telephony*. In the Dye House of the College complete plant is installed for *Bleaching*, *Dyeing*, *Finishing*, and *Printing*, and also for *Paper-making*. Practical and research work in High Voltage Technology in the High Tension Laboratory.

*Faculty of Medicine.* Research may be pursued in any of the subjects forming part of the courses leading to the degrees of M.B. and Ch.B., but special facilities exist for the study of *Cancer Research* (in the Helen Swindells Laboratory and the Christie Cancer Pavilion, and in conjunction with the local Cancer Research Committee), *Human Physiology* and *Bio-Chemistry*, *Neurology* and *Psychological Medicine*, and in *Factory* and *School Hygiene*, and in *Preventive Medicine* in the Public Health Laboratory (see Faculty of Science Prospectus and above).

A Laboratory for Clinical Investigations and Research has been established in the Manchester Royal Infirmary under a director appointed by the University.

A scheme arranged in conjunction with various local hospitals provides, in addition to the existing post-graduate courses (D.P.M., D.P.H., Dp Bact., D.V.S.M.), for intensive general courses in Medicine,

Surgery, Obstetrics and Gynæcology, for special part-time courses in (1) Diseases of the *Eye*; (2) Application of *Radiology* to Medicine in Diagnosis and Treatment; (3) Diseases of the *Skin*; (4) *Clinical Pathology*, and for other special courses.

*Faculty of Commerce and Administration.* The University has received valuable gifts and loans of collections of eighteenth and early nineteenth century records of firms engaged in the cotton industry and trade and in allied industries, and this material is available for students working in the department.

*Faculty of Theology* The John Rylands Library contains valuable material on which work can be pursued under the direction of the Professor of *Comparative Religion*, and in connexion with the subject of *Christian Epigraphy* there are special facilities, particularly in connexion with the recent investigations conducted in Asia Minor by the lecturer in that subject.

*Faculty of Education.* Research in *Education* leading to the degree of M.Ed. may be pursued under the supervision of the Director of this department.

#### POST-GRADUATE DIPLOMAS AND CERTIFICATES

The following post-graduate diplomas are obtainable :

Bacteriology, Geography, Psychological Medicine, Public Health, Veterinary State Medicine, Social Study, Teacher's Diploma.

The following post-graduate certificates are obtainable .

Factory and School Hygiene, Teachers of the Deaf

#### UNIVERSITY OF OXFORD

For information regarding courses leading to Degrees open to graduates of other Universities the pamphlet on Facilities for Advanced Studies and Research published by the University Press should be consulted. The Degrees in question are those of B Litt, B Sc, D Phil., B.C.L., and B.D. The pamphlet may be obtained at the Clarendon Press Depository, 116 High Street, Oxford

#### UNIVERSITY OF READING

A. Schools and Departments: *Agriculture, Dairying, Horticulture, Education, Commerce, Fine Art and Crafts, Music, Domestic Subjects.*

B. The University is prepared to receive candidates for the Ph.D. degree in *Philosophy, English, French, History, Physics, Chemistry, and Botany.* Applications for preparation for the degree in other subjects in the Faculties of Letters and Science can be considered. Post-graduation courses are also provided in *Agriculture and Horticulture.*

C. Specialist Subjects :

Exceptional attention is given to *Dairying Science and Practice.* Students wishing to undertake advanced work in this subject should first obtain a degree in Science or a degree or a diploma or diplomas in Agriculture or Dairying. They could then undertake advanced work either in the University laboratories and the British Dairy Institute in

Reading or at the National Institute for Research in Dairying (forming part of the University) at Shinfield. The University courses usually begin in October. A post-graduation or post-diploma course would usually occupy at least a year.

### UNIVERSITY OF SHEFFIELD

A Schools and Departments *Law, Medicine, Dental Science, Music, Architecture, Engineering, Metallurgy, Mining, Fuel Technology, Glass Technology, Education.*

B. Subjects in which the University is prepared to receive candidates for the Ph.D. degree :

Candidates for Ph D. degree are received in the Faculties of ARTS, PURE SCIENCE, LAW, ENGINEERING (including *Mining, Fuel Technology, Glass Technology*), METALLURGY.

#### C. Specialist subjects :

*Faculty of Medicine* In addition to the usual laboratories devoted to research and to the instruction of students in the various branches of Medical and Dental Sciences, a well-equipped Field Laboratory is in existence wherein extensive researches into the pathological effects of small alterations in essentials of diet are being conducted, especially in relation to diseases arising from vitamine deficiency and to the development and the decay of teeth *Engineering* The University awards the degrees of B Eng, 3 yrs being spent for a pass degree and 4 yrs for honours, and the higher degrees of M Eng, Ph D, and D Eng. Students may take what is known as the "sandwich" course, which includes attendance at the University during the winter session, and practical training at an approved works during the six summer months. This course extends over a minimum period of 4 yrs *Mechanical and Civil Engineering* The laboratories are equipped for courses of experimental work in Heat Engines, Hydraulics, Strength of Materials and Structures, they are provided with apparatus and machines for testing the mechanical properties of materials, there is a complete equipment for investigating the resistance of metals to fatigue and the effect of temperature on their properties. In connexion with the Civil Engineering course several weeks are spent in the field carrying out important surveys. The *Electrical Engineering Department* comprises laboratories well equipped for experimental work in all branches of Electrical Engineering. Extensive facilities are available for research work connected with the most recent developments of Electrical Engineering Science, with special reference to magnetism and the magnetic properties of materials *Metallurgy* The University is the most fully equipped educational institution in the country for the study of the Metallurgy of Iron and Steel. Attached to the department are large-scale laboratories in which steel can be melted in the crucible open-hearth and electric-arc furnaces, and heat-treatment can be carried out. The research laboratories are equipped with micrographic and physical apparatus, including high-frequency induction furnaces. The Department of Refractories

includes laboratories for research. *Mining*. Courses in Mining Engineering, including the practice of Mining, Mine Surveying, Mining Chemistry, Geology, and Electrical Engineering. The "sandwich" courses for Degree and Diploma in Mining course are recognized by the Mines Department, Board of Trade, as exempting from 2 of the 5 years' practical experience required for Colliery Manager's certificate. In the first year students spend 3 terms at the Univ and in the other years 6 months at a colliery under Univ regulations. Facilities provided for research. *Fuel Technology*. Courses embodying the practical evaluation of Solid, Liquid, and Gaseous Fuels, Coal Carbonization and By-product recovery, and Electro-Technology. Practical experience in working a modern gas producer in conjunction with steel-melting furnaces, and in Pyrometry. *Technology of Glass*. Courses of instruction in general technology of glass, physical properties of glass, glassworks machinery and furnace construction, and practical work includes analytical methods, pyrometry, physical testing and melting of glass on a considerable scale. The Department has been equipped as a special research institute.

## UNIVERSITY OF WALES

### UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH

A. Schools and Departments *Law*, *Music*, *Agriculture* (including *Plant Breeding*), *Education*, *Arts and Crafts*

B. Post-graduation courses leading to the Ph.D. or other higher degrees:

ARTS: *Classics*, *English*, *French*, *German*, *Celtic*; *History*; *Politics*, *Economics* and *Agricultural Economics*, *Philosophy*; *Geography*; *Education*; *Mathematics*

SCIENCE *Mathematics*, *Physics*, *Chemistry*; *Agricultural Chemistry*, *Botany*, *Agriculture*, *Zoology*, *Geology*, *Geography*, *Anthropology*.

C. Specialist Subjects:

*Anthropology*—Comparative Religion, early social organization, folk-lore, prehistoric archaeology, mapping of human distributions, physical anthropology. *Botany*—Maritime life-histories and ecology. *Classics*—Rhythms of ancient prose, word-order. *Education*—Problems of bi-lingualism. *History* of British Dominions and of Latin America. *Plant Breeding*—Special study of breeds of grasses. *Politics and Economics*—Mediæval economics, modern international problems. *Zoology*—Marine faunistic work, plumbism, entomology.

### UNIVERSITY COLLEGE OF NORTH WALES, BANGOR

A. Schools of *Theology*, *Education*, *Agriculture*, *Forestry*, *Applied Electricity*.

B. Subjects in which the College is prepared to receive candidates for the Ph.D.:

*Welsh History, Welsh Language and Literature, Comparative Philology* (especially Celtic and Teutonic), *Hebrew, Mathematics, Physics, Chemistry, Botany, Zoology, Agricultural Chemistry, Botany and Zoology*, and other subjects, provided the special investigation proposed is suitable.

### C. Specialist Courses :

*Welsh History.* Mediæval History : The Reformation in Wales : Religious and Social Conditions in the eighteenth and nineteenth centuries : Economic History. *Welsh Literature.* Ancient Welsh Poetry : Dafydd ap Gwilym : Welsh prosody : modern Welsh Literature : Comparative Celtic Philology *German.* Germanic Philology : German Dialects : Middle High German Poetry. *Semitics.* Semitic Philology Hebrew (Old Testament problems) . Arabic (Classical : Modern dialects of Syria and Egypt Arabic grammar as set forth by Arab grammarians) . Courses in Babylonian, Assyrian, Syriac, and Biblical Aramaic

## UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE, CARDIFF

A. Schools of *Education, Music, Engineering, Metallurgy, Mining, Medicine* (including *Public Health Science* and *Tuberculosis*).

B Subjects in which the College is prepared to receive candidates for the Ph.D. degree :

ARTS : *Greek, Latin, English, Welsh, French, German, Hebrew, Mathematics, Economics and Political Science, Philosophy, Education.*

SCIENCE : *Botany, Chemistry, Geology, Mathematics, Physics, Physiology, Zoology.*

TECHNOLOGY : *Engineering, Metallurgy, Mining.*

### C. Specialist Subjects .

ARTS : *Byzantine Hymnody, Greek Drama, Modern English Drama ; History of Latin Language and Literature, Roman History*, with study of Roman Britain, with field work, *Welsh Literature ; The Mabinogion ; Rise of Modern Welsh Literature, Comparative Literature of Wales and France in the Middle Ages, Arthurian Legend, Anglo-Norman ; Arabic* (including Syriac) ; *Money and Banking.*

SCIENCE . *Chemistry.* Experimental work on the Phase Rule and on the mechanism of reactions. *Geology* The South Wales coal-field and the lower Palæozoic rocks of Wales and of "Siluria." *Mathematics.* Mathematical Physics. *Physiology.* Experimental Neurology and Bio-Chemistry. *Zoology.* The Crustacea.

MEDICINE : Special opportunities for research work in bio-chemistry, experimental physiology, and the physiology of the nervous system. Unusual facilities, organized by the Professor of Tuberculosis, are given for instruction for the Diploma in Tuberculous Diseases (T.D.D., Wales), which is awarded to qualified medical men who, in addition to complying with certain specified conditions, have

pursued and successfully completed a course of study extending over 6 months.

#### UNIVERSITY COLLEGE OF SWANSEA

A. Schools of *Metallurgy, Engineering, Education.*

B. Subjects in which the College is prepared to receive candidates for the Ph D degree :

ARTS : *Welsh Language and Literature, Welsh History, Philosophy.*

SCIENCE . *Mathematics, Physics, Chemistry, Botany, Geology, Metallurgy, Engineering.*

Other subjects, provided that the special subject proposed is suitable

C. Specialist Subject :

*Metallurgy* (Ferrous and Non-ferrous).

#### UNIVERSITY COLLEGE OF THE SOUTH-WEST OF ENGLAND, EXETER

A Schools of *Music, Education.*

B Subjects in which the College is prepared to receive candidates for the Ph D degree .

The departments in Arts and Pure Science receive candidates in a certain limited range of subjects.

C Specialist Subjects :

*Cornish Language and Antiquities*, intended for students who have made some progress in Celtic studies . Part of the Course will be given in Cornwall . Students may enter for it at the beginning of any of the three terms . Fee £7 per term

#### UNIVERSITY COLLEGE OF NOTTINGHAM

A. Schools and Departments . *Music, Commercial Science, Engineering, Mining, Agriculture and Dairying, Textiles, Pharmacy, Education, Adult Education*

B Subjects in which the College is prepared to receive candidates for the Ph D degree of London .

*Philosophy, English, French, History, Physics, Chemistry, Botany, Geography, Geology, Mathematics, Engineering, Economics, Education.*

C. Specialist Subjects :

*Slavonic Languages, Fuel, Coal and Gas Technology, Textiles, Adult Education, Bacteriology.* One-year course for graduates desirous of qualifying as Tutors of University Tutorial Classes leading to Diploma in Education. Fee 12 guineas.

#### UNIVERSITY COLLEGE OF SOUTHAMPTON

A. Schools of *Music, Commercial Science, Engineering, Education.*

B. Subjects in which the College is prepared to receive candidates for the Ph.D. degree



Various departments of ARTS and SCIENCE, EDUCATION and ENGINEERING.

### UNIVERSITY OF ABERDEEN

A. Schools of *Theology, Law, Medicine, Arts, Commerce, Agriculture, Forestry, Education, Engineering*

B. Subjects in which the University is prepared to receive candidates for the Ph D degree. Applications for admission to courses of study and research for the Ph.D. Degree will be considered when received. There are special Post-graduation Courses in Theology and Medicine.

C. Specialist Subjects :

*Celtic, Comparative Philology, Oceanography and Fisheries, Comparative Psychology, Cancer Research, Parasitology and Helminthology, Meteorology.*

Special facilities for Post-graduation and Research work in Animal Nutrition and cognate subjects are afforded by the Rowett Research Institute and Experimental Farm.

### UNIVERSITY OF EDINBURGH

A. Schools and Departments . *Theology, Law, Medicine, Tropical Medicine, Pure Science, Technical Chemistry, Veterinary Science, Music, Art, Commercial Science, Engineering, Mining, Agriculture, Forestry, Education.*

B. Post-graduation Courses are provided in the following amongst other subjects :

*Latin ; Greek , Classical Archæology and Hellenic Art , Greek and Roman History , English Literature and Rhetoric , French Literature ; German Historical Grammar and Literature , Italian , Literary Relations of England and Italy during the seventeenth, eighteenth and nineteenth centuries ; Spanish, Mediæval Text and Linguistic problems (the National Library of Scotland has a specially interesting collection of old and rare Spanish books) , Semitic Languages ; Theology, by the University Professors and the staff of New College and of Coates Hall ; Logic, Metaphysics, History of Philosophy and Ethics , Psychology ; Education , Economics , Pure and Applied Mathematics , Natural Philosophy ; Chemistry (Note—In this Department a new building with complete equipment for teaching and research work has recently been erected at a cost of over £200,000) ; Zoology , Botany , Geology ; History ; Constitutional History , Scottish History , Engineering ; Law ; Medicine ; Forensic Medicine , History of Medicine ; Pharmacology ; Gynæcology ; Pathology and Bacteriology , Psychiatry ; Radiology ; Surgery ; Therapeutics ; Tuberculosis.*

For information regarding the subjects in which the University is prepared to receive candidates for the Ph.D. degree, inquiries should be addressed to the Secretary to the University, or to the Dean of the Faculty concerned.

For information regarding Post-graduation Courses in Medicine application should be made to the Secretary, P-G. C. in M., New Buildings, Edinburgh.

C. Specialist Subjects :

*Celtic.* A. Ordinary Course—Open only to students who have passed a preliminary test. B. Course for graduates—Modern and Middle Gaelic texts, Middle Irish Grammar, Gaelic Literature, Philology, etc. C. Honours Courses, including Manx, Old Irish, History of Celtic Britain and Ireland and of the Celtic Church, Comparative Philology *Sanskrit and Comparative Philology*, with *Indian Religion and Philosophy*. *Arabic*, Junior, Senior and Honours Courses. *Scottish History and Palæography*. A. Ordinary Course B. Honours Course, designed to aid students in dealing with original authorities C. Palæography, directed mainly to the practical study of Scottish records. *Constitution of the British Empire* A course of Lectures *Prehistoric Archæology* Graduation Course—The development of Culture, as revealed in the handiwork of early "men" *Fine Art* Graduation Course—The History and Theory of the Fine Arts from the earliest manifestations of Art in primitive civilization, through Egypt and Babylonia, and the Classical, Early Christian, and Mediæval epochs, to the more modern developments of Painting and the other arts in our own days. *Geography*. A. Ordinary Course covering cartography, climatology, oceanography and political and economic geography, especially of the Mediterranean region and Central and Western Europe. B. Honours Course—Economic Geography, History of Geography, Historical Geography, Economic Ethnography. The Diploma in Geography is obtainable by graduates of other universities. *Actuarial Science*. There is a Diploma in Actuarial Mathematics, the teaching for which is provided by the Faculty of Actuaries and the University jointly *Mathematics*. The Mathematical Institute (a large separate building) contains a Mathematical Laboratory for advanced practical computations *Astronomy*. Lectures at the University, practical exercises at the Royal Observatory, Blackford Hill. *Agriculture*. The course includes the History of British Agriculture, Indian and Colonial Agriculture, etc. *Forestry*. The course includes Indian Forest Trees ; practical work at Dreghorn and in various British and French woods. *Veterinary Science*. The course includes the Origin and History of the more important Domestic Animals : Genetics in relation to Animal Breeding.

## UNIVERSITY OF GLASGOW

A. Schools of *Theology*, *Law*, *Medicine*, *Pharmacy* (Royal Technical Coll.), *Architecture* (R. Tech. Coll.), *Naval Architecture* and *Marine Engineering*, *Engineering*, *Metallurgy* (R. Tech. Coll.), *Mining*, *Mining Geology*, *Agriculture*, including *Dairying* (West of Scotland Agricultural Coll.), *Education*.

B. Subjects in which the University is prepared to receive candidates for the Ph.D. degree :

In relation to the above, candidates should submit their applications to the Clerk of Senate, giving details of the subject or subjects which it is proposed to study. The University is able to arrange for Post-graduation work in the following: *English, History* (Modern and Mediæval), *Scottish History and Literature, Constitutional Law and History, Logic, Moral Philosophy, Political Economy* (including *Political Philosophy, Social Economics and Economic History*), *Education, Latin, Greek, French, German, Italian, Celtic, Russian, Hebrew, Arabic, Mathematics, Natural Philosophy and Applied Physics, Chemistry, Astronomy, Botany, Zoology, Geology, Geography*; *Civil, Electrical, Mining, Chemical Engineering*; *Theory and Practice of Heat Engines, Naval Architecture with Marine Engineering*; *Anatomy, Physiology, Physiological Chemistry, Materia Medica, Pathology, Bacteriology, Public Health, Forensic Medicine, Medical Pædiatrics, Practice of Medicine, Surgery, Midwifery, Obstetrics and Gynæcology*; *Divinity, Biblical Criticism, Ecclesiastical History, Scots Law, Conveyancing, Mercantile Law, Civil Law, Public International Law, International Private Law, Jurisprudence, Accountancy.*

*Note*—Subdivisions of the above subjects are not detailed here. Information as to these can be had from the Clerk of Senate.

The Glasgow Post-graduate Medical Association offers exceptional opportunities for advanced study. Among others, courses may be had in the following: *Clinical Medicine* (e.g. *Diseases of the Nervous System, Diseases of the Heart*), *Infectious Fevers and Tuberculosis, Clinical Surgery, Diseases of the Eye, Obstetrics, Venereal Diseases, Diseases of the Ear, Nose, and Throat, Children's Diseases, Gynæcology, X-rays, Skin Diseases.* (Application for information should be made to Dr. James Carslaw, Secretary, Glasgow Post-graduate Medical Association, 9 Woodside Terrace, Glasgow, C 3.)

For information regarding the *Diploma in Public Health*, application could be made to the University Registrar.

**C Specialist Subjects.** The Senate, with the approval of the University Court, has recently instituted for Graduates and other advanced students (chiefly from Universities overseas), Post-graduate Diplomas and Certificates for Special Study in Arts. The subjects at present recognized for special study are: *Islamic History, Greek History and Archæology, Roman History and Antiquities, Comparative Philology, Hellenistic Greek, Psychology.*

#### ROYAL TECHNICAL COLLEGE, GLASGOW

Provision is made for post-graduation studies of candidates for B.Sc. and other higher degrees, and the Associateship of the College is awarded to qualified students who have taken an approved course of advanced study and research. Special apparatus is available for research in the following subjects:

**Technical Chemistry.** Operations in industrial Chemistry. The experimental plant includes filter and hydraulic presses, vacuum pan, double-effect evaporator, etc. Fuels, Oils, Dyes and Dyeing. The *School of Sugar Manufacture* forms part of this department and includes

plant for experiments on a large scale. *Metallurgy* : Physical properties of metals and their alloys, and of slags and refractories. Apparatus for determination of thermal, electrical and magnetic properties ; dilatation determinations ; thermionic emissivity of metals. *Strength of Materials* : Strength and fatigue of materials at high temperatures and in different atmospheres. *Mechanical Engineering* : Losses in steam nozzles and in turbine blades ; temperature distribution and fuel efficiency in internal combustion engines, heat transmission from fluid to fluid, across metal surfaces, frictional resistances, etc. Advanced lecture courses are also given in special branches of technical dynamics such as critical speeds of turbine shafts, torsional oscillations of crank and propeller shafts, stresses in turbine discs, etc. *Electrical Engineering* : Railway electrification, all types of electrical machinery, interference with communication circuits by power circuits, domestic electrical apparatus. Advanced courses deal with turbo-alternators, electric traction, etc. *Hydraulic Engineering* : Experimental study of losses in water flow and of the action of water in turbine and reciprocating pumps. *Technical Mycology* Analysis of sewage, milk, water, etc.  
Composition fee, twenty-five guineas per annum

### UNIVERSITY OF ST. ANDREWS

A Schools of *Theology, Medicine, Engineering*

B. Provision is made for advanced study and research in the following departments

*Latin, Greek, Hebrew, English, French, German, Philosophy, Psychology* on its philosophical side, and more particularly in its relation to Theory of Knowledge, *Moral Philosophy, Moslem Philosophy and Religion, Education, History, Scottish History, Ecclesiastical History, Mathematics, Natural Philosophy, Chemistry*, especially carbohydrates and sugars, Constitution of Natural Products, Essential Oils, Optical Activity, *Zoology*, including work at the Gatty Marine Laboratory in St. Andrews Bay, *Botany, Geology, Anatomy (Anthropology and Embryology), Physiology*, especially the Ductless Glands and Metabolism, *Ophthalmology, Bacteriology, Gynaecology, Medicine, Biblical Criticism, Engineering, Divinity*

### UNIVERSITY OF BELFAST

A Schools and Departments : *Law, Medicine, Dental Science, Commercial Science, Civil Engineering, Applied Science* (Municipal College of Technology), *Education, Agriculture*.

B Subjects in which the University is prepared to accept students for the Ph D. or other higher degree. Application for admission to courses of Post-graduation study will be considered as and when received.

C. Specialist Subjects :

In conjunction with the Ministry of Agriculture, the department of

*Agricultural Chemistry* is responsible for research work in Animal Nutrition and Soils and Plant Nutrition ; the department of *Agricultural Botany* has charge of " Seed Testing " and Plant Pathology Research in Northern Ireland. Extensive laboratories have been erected. There is an experimental farm of 500 acres in connexion with the Faculty. Ample facilities also exist for Post-graduation work on Plant Genetics and Animal Hygiene at the Plant-breeding and Animal Pathology laboratories of the Ministry of Agriculture. *Naval Architecture*. Ship Design and Construction, Stability and Oscillation of ships, Resistance and Propulsion of ships, Marine Engineering. *Chemical Technology*. Bleaching, Dyeing, Finishing, and Printing of Textile fibres and fabrics. *Textile Technology*. Flax culture, preparation and spinning, designing and colouring of woven fabrics , Textile costing, testing and analysis ; weaving mechanism ; Mill and Factory equipment and administration. The Departments of *Bio-Chemistry* and *Bacteriology* afford facilities for Post-graduation research on these subjects.

### UNIVERSITY OF DUBLIN, TRINITY COLLEGE

A Schools of *Divinity, Law, Physic, Dental Science, Engineering, Agriculture, Music, Education, Commerce*

For information regarding courses leading to the degrees of B A. and B Sc , to the degree of Master in Engineering, Surgery and Midwifery , to the degree of Doctor in Divinity, Law, Medicine, Science, Literature and Music , and to the degrees of M Sc and Ph D , which are open to external students, application should be made to the Registrar, Trinity College, Dublin.

A pamphlet setting forth the facilities for advanced study and research can be obtained on application to the Registrar.

### NATIONAL UNIVERSITY OF IRELAND

Schools of *Law* (University Colleges of Dublin, Cork, and Galway), *Medicine* (Dublin, Cork, and Galway), *Dental Science* (Dublin and Cork), *Music* (Dublin and Cork), *Architecture* (Dublin and Cork), *Commercial Science* (Dublin, Cork, and Galway), *Engineering* (Dublin, Cork, and Galway), *Agriculture, Forestry, and Horticulture* (Dublin), *Education* (Dublin, Cork, and Galway), *Dairy Science* (Cork). Specialist courses in all Univ. Colls in *Celtic Archaeology, Celtic and Irish Languages and Literatures, Irish History* , in Univ. Coll , Dublin, in *Anthropology*, and in Univ Coll , Cork, in *Applied Chemistry and Agricultural Economics*.

## XXVI

A LIST OF CENTRES OF RESEARCH OUTSIDE THE  
UNIVERSITIES AND UNIVERSITY COLLEGESRESEARCH STATIONS UNDER THE DEPARTMENT OF SCIENTIFIC AND  
INDUSTRIAL RESEARCH

1. National Physical Laboratory, Teddington, Middlesex The Laboratory comprises the following Departments. Physics, Electricity, Metrology, Engineering, Aerodynamics, Metallurgy and Metallurgical Chemistry, William Froude National Tank.
2. H M. Fuel Research Station, Blackwall Lane, Greenwich, S E 10.
3. Geological Survey of Great Britain and Museum of Practical Geology, 28 Jermyn Street, S.W.1.
4. Forest Products Research Laboratory, Princes Risborough, Bucks
5. Building Research Station, Bucknall's Lane, Garston, near Watford.
6. Radio Research Station, Slough, Bucks
7. Chemical Research Laboratory, Teddington, Middlesex.
8. Low Temperature Research Station, Downing St., Cambridge
9. British Museum Laboratory, 39 Russell Sq, W C.

## OTHER CENTRES OF RESEARCH

10. British Museum (Natural History), Cromwell Rd, London, S.W.7.
11. Imperial Institute, South Kensington, London, S W 7.
12. Imperial Bureau of Entomology, Natural History Museum, Cromwell Road, London, S W.7
13. Imperial Bureau of Mycology, 17 Kew Green, Kew, Surrey.
14. Royal Botanic Gardens, Kew, Surrey
15. National Institute of Agricultural Botany, Cambridge.
16. Rothamsted Experimental Station, Harpenden, Herts
17. Empire Cotton-Growing Corporation, Millbank House, 2 Wood Street, Millbank, London, S.W.1.
18. Harper Adams Agricultural College, Newport, Salop.
19. Midland Agricultural and Dairy College, Sutton Bonington, Loughborough.
20. Seale-Hayne Agricultural College, Newton Abbot, Devon.
21. The West of Scotland Agricultural College, 6 Blythswood Square, Glasgow.
22. East of Scotland Agricultural College, 13 George Square, Edinburgh.
23. North of Scotland College of Agriculture, 41½ Union Street, Aberdeen.
24. Scottish Society for Research in Plant-Breeding, Corstorphine.

25. Animal Diseases Research Association (Scotland), 83 Buccleuch Street, Glasgow.
26. Research Institute in Animal Pathology, Royal Veterinary College, Camden Town, London, N W.1.
27. Veterinary Laboratory of the Ministry of Agriculture and Fisheries, Weybridge
28. Horticultural Research Station, Walthamstow.
29. Horticultural College for Women, Swanley, Kent.
30. Horticultural Research Station, East Malling, Kent. (Chiefly fruit and hops)
31. Experimental and Research (Glasshouse) Station, Cheshunt.
32. John Innes Horticultural Institution, Mostyn Rd., Merton, London, S.W. 19.
33. Scottish Marine Biological Association, Millport, Scotland.
34. Marine Biological Association of the United Kingdom, The Laboratory, Citadel Hill, Plymouth.
35. Davy-Faraday Research Laboratories of the Royal Institution of Great Britain, 20 and 21 Albemarle St, London, W.1. Director—Sir Wm. Henry Bragg, K B E, M.A., D Sc., F.R.S.
36. Industrial Institute, 102 Belgrave Road, London, S.W.1.
37. National Institute of Industrial Psychology, 329 High Holborn, London, W C.1.

[Persons wishing to avail themselves of the resources of any of the above centres are advised to call in the first instance for suggestions and advice on the Ministry of Agriculture and Fisheries in London, or the Board of Agriculture in Scotland, if the subjects in which they are interested fall within the purview of these Departments, and in regard to centres 1 to 9 on the Department of Scientific and Industrial Research.]

#### RESEARCH ASSOCIATIONS ESTABLISHED UNDER THE SCHEME OF THE DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

- British Photographic Research Association, 30 Russell Square, London, W.C.1.
- British Scientific Instrument Research Association, 26 Russell Square, London, W C 1.
- British Research Association for the Woollen and Worsted Industries, "Torridon," Headingley, Leeds
- Research Association of British Motor and Allied Manufacturers, 15 Bolton Road, Chiswick, London, W.4.
- British Boot, Shoe and Allied Trades Research Association, 19 Bedford Square, London, W C 1.
- British Cotton Industry Research Association, Shirley Institute, Didsbury, Manchester.
- British Iron Manufacturers' Research Association, Atlantic Chambers, Brazenose Street, Manchester.
- Linen Industry Research Association, Lambeg, Belfast.
- Research Association of British Rubber and Tyre Manufacturers, 105/107 Lansdowne Road, Croydon, Surrey.

- British Association of Research for Cocoa, Chocolate, Sugar, Confectionery and Jam Trades, 22 Buckingham Gate, London, S.W.1.  
 British Food Manufacturers' Research Association, 22 Buckingham Gate, London, S.W.1.  
 British Non-Ferrous Metals Research Association, Athenæum Chambers, 71 Temple Row, Birmingham.  
 British Refractories Research Association, 22 Northumberland Avenue, London, W.C.2.  
 Scottish Shale Oil Scientific and Industrial Research Association, 53 Bothwell Street, Glasgow  
 British Launderers' Research Association, 17 Lancaster Gate, London, W.2  
 British Leather Manufacturers' Research Association, 26 St Thomas' Street, London, S.E.1.  
 British Cutlery Research Association, P.O. Box 49, Sheffield.  
 British Electrical and Allied Industries Research Association, 36/38 Kingsway, W.C.2  
 British Motor Cycle and Cycle Car Research Association, "The Towers," Warwick Road, Coventry  
 British Silk Research Association, 19 Russell Square, London, W.C.1.  
 British Cast Iron Research Association, 24 St Paul's Square, Birmingham  
 Research Association of British Flour Millers, 40 Trinity Square, London, E.C.3  
 British Colliery Owners' Research Association, c/o The Mining Association of Great Britain, General Buildings, Aldwych, W.C.2  
 Research Association of British Paint, Colour, and Varnish Manufacturers, 8 St Martin's Place, Trafalgar Square, W.C.2
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[The following notes are based on replies received to an inquiry as to what opportunities are available at these centres for research by visitors from outlying parts of the Empire.]

1-9 Research workers from overseas are not accommodated in the research stations of the Department of Scientific and Industrial Research unless sent by Dominion and Colonial Governments by arrangement with the Department. Visitors from the Dominions or Colonies making enquiries on subjects falling within the scope of the various stations will, however, be supplied with such information as is available for communication.

3. THE GEOLOGICAL SURVEY AND MUSEUM assists students and others doing research as follows: (a) Palæontology, Petrology, and Mineralogy; the collections of British fossils, rocks, and minerals are always available under the guidance of the officer in charge. If sufficient reason is shown specimens may be lent out. Microscopes and all necessary apparatus are provided in the Survey's laboratories. (b) Mapping and field work. In the library large scale maps of all parts of Britain which have been geologically surveyed are open for reference, and often the officers who



made the maps are at hand to explain points of difficulty. (c) The library is especially rich in foreign surveys and in British geological literature. The public are admitted freely.

10. BRITISH MUSEUM (NATURAL HISTORY). Departments: Zoology, Entomology, Geology (Palæontology), Mineralogy, Botany. In addition to the specimens exhibited in the public Galleries, much larger series are contained in the study-collections, which can be consulted or used for purposes of research by duly qualified workers. The function of the Museum is primarily to preserve representatives of the animals and plants (including fossils) of the entire world and of such inorganic natural productions as minerals, rocks, and meteorites. The systematic determination, description, and classification of this material constitute the principal research-work of the scientific staff (49 members) and other helpers. This forms the basis of further scientific research carried on either inside or outside the Museum, such as the study of variation, methods of organic evolution, geographical distribution of animals and plants, correlation of strata, chemical and physical properties of rocks and minerals, study of crystals. All these branches of science may in turn be applied to the solution of practical problems.

11. IMPERIAL INSTITUTE. The principal object of the Institute is to promote the utilization of the raw materials of the Empire, and the investigations carried out in its laboratories are primarily directed to this end. The work includes the examination of all kinds of plant products and minerals, special laboratories have also been installed for the testing of timbers, rubber, cement and ceramic materials. The results of the principal investigations are published in the quarterly bulletin of the Institute and in papers contributed to scientific and technical societies. Valuable information relating to the composition, properties, etc., of raw materials of all kinds has been accumulated in the course of the work, and the Institute will be glad to assist overseas research workers dealing with such materials by supplying any available information regarding particular products in which they are interested. Arrangements have been made in special cases for workers from overseas to carry out investigations in the laboratories of the Institute.

The *Imperial Mineral Resources Bureau* was amalgamated with the Institute in 1925.

12. IMPERIAL BUREAU OF ENTOMOLOGY. An information and identification bureau to assist economic entomologists throughout the Empire. The publications include the *Review of Applied Entomology*, Series "A" (Agricultural) and Series "B" (Medical and Veterinary); the *Bulletin of Entomological Research*, and the *Zoological Record*, part "Insecta." A large lending library is available.

13. IMPERIAL BUREAU OF MYCOLOGY. Mycologists from overseas are admitted to its laboratories to the extent to which space is available. A large lending library of pamphlets is maintained. *Review of Applied Mycology*, published by the Bureau monthly, contains detailed abstracts in English of all work published in any part of the world.

14. ROYAL BOTANIC GARDENS, KEW, afford to botanists, especially from the Colonies, facilities for carrying out scientific investigations in the Library, Herbarium, Economic Museums, and the Jodrell Laboratory. The principal botanical work carried out is concerned with the preparation of Colonial Floras and the naming of plant collections from abroad. Information is also supplied on botanical matters to all parts of the Empire. Research work is carried out on matters relating to Economic, Systematic, and Phytogeographical Botany and also in Mycology. Botanists should apply to the Director for permission to work in the Herbarium or in the Laboratory.

15. THE NATIONAL INSTITUTE OF AGRICULTURAL BOTANY, Huntingdon Road, Cambridge, was established in 1919 to improve the yield and quality of farm crops. The two main branches of the work are (a) Crop Improvement, covering field trials of farm crops at six regular sub-stations in England and Wales, and occasionally at other centres, the distribution of seed of improved varieties, and at the Potato Testing Station, Ormskirk, the official trials of potatoes for immunity from wart disease; (b) Official Seed Testing Station for England and Wales at Cambridge, which makes laboratory tests of the purity and germination of seed samples, and undertakes research work on seed problems. In approved cases facilities would be given for post-graduation research. Reports of work done are issued in the Institute's *Journal*. Periodical meetings of Fellows of the Inst. are held for discussion, etc. A course and examn in the theory and practice of seed testing was held in the summer of 1927; fee for course (four to five weeks), £5 5s, for examn., £1 : 1s

16. THE ROTHAMSTED EXPERIMENTAL STATION, HARPENDEN, HERTS, founded in 1843, is controlled by the Lawes Agricultural Trust (Endowment Fund, £100,000), with which the Incorporated Society for Extending the Rothamsted Experiments (founded 1904) co-operates. Annual grants are received from the Ministry of Agriculture, which also gives Capital Funds for an approved purpose. The Station includes extensive laboratories, glasshouses for the study of Plant Nutrition and Soil Problems and Plant Pathology, an area of 300 acres of land for the purpose of Farm and Experimental Fields, and a Library of 15,000 volumes

Provision is made for Post-graduate Research work, and for studies by agriculturists and others on leave from Agricultural Departments in the Empire.

17. EMPIRE COTTON-GROWING CORPORATION subsidizes research by studentships, grants to institutions for research, etc., and in 1926 established a Cotton Research Station in Trinidad, where the chief subjects of study will be the genetics and physiology of the cotton plant.

18. HARPER ADAMS AGRICULTURAL COLLEGE provides facilities for research workers in Agriculture, or in Chemistry, Mycology, Entomology or Economics in their application to Agriculture. The National Institute of Poultry Husbandry is located at the College, and provides

extensive facilities for poultry research. Reports are published in the form of separate bulletins as well as in journals, such as the *Journal of Agricultural Science*, *Bio-chemical Journal*, and *Annals of Applied Biology*.

19 MIDLAND AGRICULTURAL AND DAIRY COLLEGE. Visitors admitted for research work in the Chemistry Laboratories, or in Dairying or Costings, at 6os per week, including board and lodging. Reports on experiments and small matters of research are issued from time to time.

20 SEALE-HAYNE AGRICULTURAL COLLEGE. Of the college farm (339 acres with a subsoil of sandstone and shale) 20 acres are devoted to field experiments. There are 100 small botanical plots. The research work is chiefly in connexion with insect and fungous pests. Experts from overseas proposing to visit the College would be welcomed, and arrangements could probably be made for them to work there temporarily. Results of experiments are published in pamphlets.

21. THE WEST OF SCOTLAND AGRICULTURAL COLLEGE, GLASGOW. Applications by experts employed by the Government or Industrial Corporations in the British Empire overseas for permission to visit the College or for copies of bulletins will receive attention.

23 NORTH OF SCOTLAND COLLEGE OF AGRICULTURE. Experiments on farm crops on the College Farm at Craibstone, near Aberdeen, research work in Soils and Drainage and in Entomology, results of experiments and research published in bulletins.

24 ANIMAL DISEASES RESEARCH ASSOCIATION (SCOTLAND). A new Institute has been built at Moredun, Gilmerton, Edinburgh, and a suite of rooms have been taken over at the Royal (Dick) Veterinary College. At present the diseases of sheep and grass disease of horses occupy the staff. The range of work will be extended in the near future to other diseases of animals of Scotland. It is possible that facilities may be available in the future in certain cases for temporary workers.

29 HORTICULTURAL COLLEGE FOR WOMEN, SWANLEY, conducts investigations into insect pests and fungus diseases of cultivated garden plants. Students on leave from other countries will be welcomed.

30. EAST MALLING RESEARCH STATION, KENT (The Kent Incorporated Society for Promoting Experiments in Horticulture.) Research work is being carried out in Pomology, Hop Culture, Plant Pathology, Physiology, and Entomology. From time to time facilities are offered to graduate students for gaining experience in research in these problems, both in the field and laboratories.

31. EXPERIMENTAL AND RESEARCH STATION (GLASSHOUSE STATION), CHESHUNT. Research workers have been admitted to the laboratories for short periods when space was available. Reports are widely circulated.

32. JOHN INNES HORTICULTURAL INSTITUTION, Merton Park, London, S.W.19, promotes researches in various subjects connected with Horticulture, especially Plant-breeding, Cytology, and Mycology. Certified persons desirous of conducting work coming within the scope of the Institution are given facilities freely.

33. SCOTTISH MARINE BIOLOGICAL ASSOCIATION, Millport, N.B., admits students and research workers: table space rental 10s. 6d. per week, including loan of microscope and use of ordinary reagents, library and reference collections, boats and collecting appliances when available.

34. MARINE BIOLOGICAL ASSOCIATION (Plymouth Laboratory) is always glad to receive visitors from abroad at the laboratories and to help them. Working tables can be rented (30s. a week) or obtained by nomination. Special facilities for fishery investigations. Results of researches are published in the Association's and other Journals.

36. THE INDUSTRIAL INSTITUTE, 102 Belgrave Road, S.W.1. Founded 1925 for the promotion of scientific research into those questions of industrial economics and industrial ethics which touch the relations and interests of the groups into which the development of the industrial system has divided the nation. It is constituted on a non-party basis, and it is expressly laid down that "it will not be concerned to maintain private ownership nor to develop public ownership," its object being "to study things as they are, and by the light of knowledge so gained to form conclusions which may be put into practice and tend towards improvement of the conditions of industrial life." A Committee has been appointed to take charge of each of four lines of work, and a sub-committee has undertaken the preparation of a "map" of the whole range of knowledge bearing on the general question of "Balance," so that the actual knowledge at present available should appear in its proper relations. The "map," it was agreed, should also show the researches at present in progress in different parts of the world which bear on the question. Thus the gaps in the knowledge needed for the practical survey of the whole problem would be clearly presented.

37. NATIONAL INSTITUTE OF INDUSTRIAL PSYCHOLOGY, 329 High Holborn, London, W.C.1. *Director*—C. S. Myers, C.B.E., M.D., Sc.D., F.R.S. The Institute studies the human factors which enter into industry and commerce and applies the results in practice. On behalf of firms it conducts investigations into vocational selection, movement study and the influence of rest pauses, lighting, humidity, ventilation, seating, methods of payment, advertisement, etc., on output. In its own laboratories it offers vocational guidance to individuals, based on mental and physical tests. It provides lectures and practical work suitable for the requirements of the new Academic Diploma in Psychology in the Univ. of London. It also offers facilities for research in those subjects. *Journal*, quarterly, *Special Reports*. Training Courses for School Teachers in the principles and methods of intelligence testing are organized.

THE BRITISH SCIENTIFIC INSTRUMENT RESEARCH ASSOCIATION conducts research into problems pertinent to the manufacture and use of scientific instruments, including optical, surveying, nautical, and electrical instruments, and electro-medical and X-ray apparatus, and also into optical glass. It has headquarters' laboratories at 26 Russell Square, London, W C.1, and researches are prosecuted in universities, technical colleges, works laboratories and works. Students are not admitted to work in the Association's laboratories. The research reports are, in general, confidential to members of the Association and to certain Government services, but some are published from time to time, either in scientific journals or separately for general circulation. The annual reports of the Association are distributed to certain public libraries, etc., at home and abroad, but otherwise are available only to members. Among the institutions receiving them are: the Research Council Library, Parliament Buildings, Ottawa, Canada; Institute of Science and Industry, 314 Albert St., East Melbourne, Australia; Advisory Board of Industry and Science of the Union of S Africa, New Law Courts, Johannesburg.

THE BRITISH RESEARCH ASSOCIATION FOR THE WOOLLEN AND WORSTED INDUSTRIES awards Research Fellowships and Advanced Scholarships tenable at Universities and Colleges, but up to the present has not admitted students to work in its private laboratories. The results of research carried out at the headquarters of the Association are in some cases published in the *Journal* of the Textile Institute or in the *Journal* of the Society of Dyers and Colourists. Other reports are retained in the first instance for private circulation to members of the Association, but may subsequently be released for general circulation.

BRITISH COTTON INDUSTRY RESEARCH ASSOCIATION does not admit students to work in its laboratories, but most of its work is released for publication, and appears first as *Shirley Institute Memoirs* and then in the *Journal* of the Textile Institute, 16 St. Mary's Parsonage, Manchester.

LINEN INDUSTRY RESEARCH ASSOCIATION, Lambeg, Ireland. Investigators, who must be British subjects, are admitted to work in the Association's Research Institute in furtherance of its objects and in preparation for higher University degrees. The work includes the investigation of problems arising in all branches of the industry, from the propagation of the seed to the merchandising of the finished goods. It affords scope for much original research in economic botany, agriculture, bio-chemistry, and physics, particularly the properties of colloids. The results of researches are frequently published in scientific journals. In order to develop flax-growing within the Empire, special arrangements exist to provide post-graduation instruction in the economic botany and technical utilization of the flax plant for suitable nominees from outlying parts of the Empire.

THE RESEARCH ASSOCIATION OF BRITISH RUBBER MANUFACTURERS has a technical library and information Bureau at their Laboratories at 105/7 Lansdowne Road, Croydon, to deal with inquiries from its members, Government Departments, and scientific workers in the Dominions. Carries out research, chiefly of a confidential nature, through its own staff. A *Summary of Current Literature*, containing abstracts of technical and scientific publications relating to all branches of the rubber industry, is issued to members and subscribers each month.

THE BRITISH NON-FERROUS METALS RESEARCH ASSOCIATION aims to cover the whole field of the non-ferrous metals and their alloys. Membership of the Association is open to individuals and companies in any part of His Majesty's Dominions who have industrial interests in non-ferrous metals whether as smelters, manufacturers, or users. The researches of the Association are carried out in approved academic and other institutions, or in works, and the results are in the first instance reserved to members, although much is being published. So far as possible, the Association will be pleased to inform scientific workers from the Overseas Empire of the work it has undertaken or already published.

BRITISH ELECTRICAL AND ALLIED INDUSTRIES RESEARCH ASSOCIATION. Has no laboratory of its own. Arranges programmes of research and carries them out with the help of makers' laboratories and Universities and Technical Colleges (sometimes under contract with members of staffs or students), in power stations, etc. Aims at securing co-ordination of research work and realization of maximum benefits from it. Reports published generally in the *Journal* of the Institution of Electrical Engineers.

BRITISH SILK RESEARCH ASSOCIATION. Research results of general interest are usually published by the *Journal* of the Textile Institute. Provision is not normally made for circulation of unpublished reports nor for admission of research students to the laboratory, but special applications addressed to the Secretary may be considered.

BRITISH CAST IRON RESEARCH ASSOCIATION of manufacturers of pig iron, grey iron, and malleable castings of all kinds, for research in the constitution, methods of production, and after-treatment of these and auxiliary materials, such as refractories, sands, fuels, slags, fluxes, etc. Their Central laboratory is in Birmingham and an auxiliary laboratory in Falkirk, but most of the research work is at University and other research laboratories at Sheffield, Birmingham, Manchester, etc., and at the National Physical Laboratory. Investigators interested in any phase of research work on cast iron may use the Association's Information Bureau, and the Director is prepared to co-operate in planning investigations. Quarterly bulletin of abstracts and information on current metallurgical literature. General account of the work of the Association printed in the *Proceedings of the Empire Mining and Metallurgical Congress*, 1924.

## APPENDIX XXVII

TITLES OF THESES ACCEPTED FOR THE DEGREE  
OF DOCTOR*Faculties*

A. Classics.	Q Biology "A"
B. Divinity.	(Anatomy, Botany, Embryology, Entomology, Eugenics, Genetics, Geology, Helminthology, Parasitology, Zoology.)
C. English.	R Biology "B."
D. Fine Arts.	(Bacteriology, Biochemistry, Histology, Pathology, Pharmacology, Physiology, Psychology)
E. Modern and Mediæval Languages.	S. Geography
F. Oriental Languages.	T. Medicine.
G. Music	U. Technology.
H. Economics and Politics.	V Commerce.
I History.	W Education.
J. Law.	
K Moral Science	
L. Engineering	
M. Mathematics.	
N. Physics and Chemistry	
O. Agriculture, Horticulture, Forestry	
P. Archæology and Anthropology.	

## BIRMINGHAM

T.	Lamb, F. W. M.	Multiple neurofibromatoses · an account of the present position of its pathology, with a number of new cases illustrating the dystrophic character of the disease	M.D
T	Brailsford, J. F.	The X-ray diagnosis of pathological conditions of the gall-bladder	M D.
L.	Sakr, H. T.	The testing of alternating current motors by means of direct current.	Ph D
H.	Allen, G. C.	The industrial development of Birmingham and the Black Country, 1860-1914	Ph D
H.	Puscariu, A.	The Danube · its history and its economic and political development.	Ph.D.
N	Allpress, C. F.	Structural problems in the carbohydrate series, with special relation to (a) The carbonates of the sugars; (b) The acetates of cellulose.	Ph D.
N	Charlton, W.	Constitutional studies in the hexose series : (1) The structure of glucose determined by a study of the iso-	Ph.D

- meric tetramethyl gluconolactones ; (2) On  $\alpha$ -diacetone fructose and the derived monomethyl fructose ; (3) The constitution of melibiose.
- N, T. Edgar, S. H. A biochemical study of acute rheumatism in childhood Ph D.
- N. Goodyear, E. H. A study of the constitution and properties of lactones derived from sugars (1) *a*. A study of the rates of hydration of the lactones derived from the simple sugars, *b* The normal and  $\gamma$ -oxide forms of mannose, (2) The interconversion of  $\gamma$ -mannono and  $\gamma$ -gluconolactones, (3) Galacturonic acid and its derivatives ; (4) The structure of the glucose phenylhydrazones. Ph D.
- N Learner, A. Oxidation and synthesis in the sugar group (1) The constitution of inulin, with an addendum on the transformation of trimethyl inulin and 3 4 6-trimethyl  $\gamma$ -fructose into furan derivatives, (2) The structure of  $\gamma$ -arabinose, (3) The preparation and properties of crystalline normal tetramethyl  $\beta$ -methyl fructoside, (4) The synthesis and oxidation products of 2 3 4-trimethyl glucose Ph D.
- N Peat, S The structure of the hexose units in cellulose and starch (1) A revision of the structural formula of glucose, (2) The structure of maltose Ph D.
- Q Sikes, Enid K The life-history of the coccid bug *Orthocentrus urticae*, Linn., and the anatomy of the larva, with a note on the structure of the head and mouth parts Ph D.
- N. Baxter, J. P. The combustion of carbonic oxide. Ph D.

## BRISTOL

- I, O. Millard, W. A. Numerous papers on vegetable pathology, etc., in *Ann. App. Biol.* and *Reports of Univ. of Leeds and Yorks. Council for Agr. Ed.* D Sc.
- N. Holmyard, E. J. (a) Work on the history of chemistry in mediæval Islam, (b) On the teaching of chemistry in this country. D Litt.
- Q. Bish, E. J. B. The reserve starch of the bracken fern —estimation, distribution, and seasonal changes. Ph.D.



# THESES ACCEPTED FOR DEGREE OF DOCTOR 759

- Q. Adams, S. B. 1 On the cervical nerves to the platysma in Marsupials. 2. On certain head muscles of the Marsupials 3. On certain head muscles in Cetacea compared and contrasted with those in embryo Beluga. Ph.D.

## CAMBRIDGE

THE PAMPHLET "ABSTRACTS OF DISSERTATIONS" APPROVED FOR THE PH D, M.Sc, AND M LITT DEGREES IN THE UNIVERSITY OF CAMBRIDGE for the Academical Year 1926-27 may be obtained from the Secretary of the Board of Research Studies, the Registry, Cambridge. The titles of theses for the M.D. degree are to be found in the *Cambridge University Reporter*.

## DURHAM COLLEGES

- B. Niven, G C Arnobius, the last of the Apologists D.D  
G Brockless, G F. "The Ascension of Christ" (Words by W Drummond) D.Mus.  
G Green, J. E "Encladus" (Words by Long-fellow) D Mus.

## LEEDS

- T. Wardle, Gretta M Cancer of the breast—the late results of operation, with observations on the prognosis in operated cases. M D.  
T. Sugare, H. Investigations into the incidence of infection with the bacillus pertussis (Bordet and Genou) in the Leeds area. M.D.  
T. Gross, Desirée M B. A statistical study of gall-stones, with some observations on the pathology of the strawberry gall-bladder. M.D.  
T Science, J Paralysis in diphtheria M D.  
N, U. Attree, G. F. (i) The position of the sugar nucleus in the quercetin glucosides, (ii) Reduction products of hydroxy-anthraquinones; (iii) The composition of isobenzalzarim. Ph.D.  
H, O. Bajwa, K. S A study of the development of agriculture in the Punjab and its economic effects. Ph.D.  
U. Bean, C P. The effects of hot after-treatments on the degree of aggregation, location, and fastness of insoluble azo colours on cotton and artificial silks. Ph.D.  
N, U. Dunbar, C. The preparation of phthalazine, phthalazone, and phthalimidine derivatives from 2'-chloro-4'-nitrobenzene - 2 - naphthol - 1 - diazosulphonate, and from 2' : 6'-dichloro-4'-nitrobenzene - 2 - naphthol - 1 - diazosulphonate. Ph.D.

R.	Gane, R.	Translocation, with special reference to the chemical composition of the vascular bundles of <i>Cucurbita pepo</i>	Ph D.
R.	Hinton, J. J S	Translocation and the function of phloem.	Ph.D.
N	Key, A.	Acid and salt effects in catalysed reactions ( <i>J. Chem. Soc.</i> , 1928, 543, 1239, 1248)	Ph.D.
M.	Rosenhead, L	(1) Resistance to a barrier in the shape of an arc of a circle ( <i>Proc. R.S.</i> , A, vol. 117, 1928), (ii.) Systems of line vortices between two parallel plane barriers.	Ph.D.
N.	Shaw, Florence R	The mechanism of meta-orientation in aromatic substitution.	Ph D.
O, R.	Sledge, W. A	The rooting of cuttings from the standpoint of anatomy.	Ph.D.
N, U.	Story, C. W. H	The migration of acyl groups in partially acylated phenolic substances.	Ph.D.

## LIVERPOOL

T	Morgan, M T.	Epidemic catarrhal jaundice. (Ministry of Health Publication)	M D.
T	Brookfield, R. W.	Blood changes occurring during lead therapy.	M.D.
T.	Edgecombe, Kathleen	Two studies in human blood groups.	M.D.
T.	Browning, Ethel.	B-vitamin deficiency as a cause of intestinal stasis	M D.
T.	Wall-Mesham, Nellie	(1) Bacteria of tonsils and adenoids. (2) Some observations on the treatment of asthma	M.D
T.	Craig, J. D.	An investigation into the value of ultra-violet radiation during the treatment of tuberculosis in childhood.	M D.
T.	Dawbarn, R. Y.	Studies of the ætiology of thrombosis following operation and parturition.	M D.
T	Birch, C. A.	Observations on the bilirubin of the blood.	M D.
T	Bamford, C. B.	A clinical and laboratory investigation into the therapeutics of general paralysis of the insane	M.D.
T.	Hall, S. B.	Chronic epidemic encephalitis.	M D.
T	Datnow, M M.	An experimental investigation concerning toxic abortion.	M.D.
P, Q.	Williams, H.	(1) The Romano-British site at Rhos-tryfan, Carnarvonshire ( <i>Archæologia Cambrensis</i> , Dec. 1922). (2) The igneous rocks of the Capel Curig District (N. Wales) ( <i>Proc. of the Liverpool Geol. Soc.</i> , vol xiii	D.Sc.

- Part III., 1922, pp. 166-202). (3) Notes on the characters and classification of pyroclastic rocks (*Proc. of the Liverpool Geol. Soc.*, vol. xiv., 1926). (4) The geology of Snowdon (North Wales), *Quart. Journ. Geol. Soc.*, vol. lxxxiii pt. 3, pp. 346-431 and pls xxiv.-xxix.).
- |    |                     |  |       |
|----|---------------------|--|-------|
| N. | Morton, R. A        | Studies in chemical optics. Numerous papers in <i>J. and Trans. Chem. Soc.</i> , <i>J. Phys. Chem.</i> , etc   | D Sc. |
| N. | Tryhorn, F. G.      | The absorption spectra of mono-substituted benzene compounds and the benzene substitution law ( <i>Trans. Chem. Soc.</i> , 1915, vol. 107, pp. 1058-1070). Numerous papers on absorption spectra, adsorption, etc., in <i>Trans. Chem. Soc.</i> and <i>Trans. Faraday Soc.</i>                                   | D.Sc. |
| L. | Robinson, S. C.     | The strength and elasticity of steel under repeated alternating stresses.  | Ph D. |
| Q. | Higgins, Edith M    | (1) Life-history and cytology of <i>Leathusia difformis</i> , Aresch. (2) A biological investigation of <i>Colpomenia sinuosa</i> , Deib. et. Sol (3) A cytological investigation of <i>Stypocaulon scopiarum</i> (L. Kutz), with special reference to the unicellular sporangia. (4) Growth of algæ on limpets. | Ph.D. |
| N. | Batley, A.          | The absorption spectra of iodine solutions   | Ph.D. |
| N. | Williams, J         | Kinetics and energetics of enzyme action.  | Ph.D. |
| M. | Mercer, Florence E. | Oscillations of a mechanical system with infinite freedom.   | Ph.D. |
| N. | Goodall, A. W       | The decomposition of nitrosotriacetone   | Ph.D. |
| N. | Harvey, J.          | Investigations into the constitution of fish liver oils.   | Ph.D. |
| N. | Stephen, W. E.      | Photosynthesis in the plant.   | Ph.D. |
| N. | Holt, S. L.         | Condensation of N-acetyl-methylantranilic acid by means of phosphorus pentachloride.   | Ph.D. |
| N. | Oxford, Frances M.  | The by-product of photo-synthesis.   | Ph.D. |
| N. | Moore, C. L.        | Photosynthesis of carbohydrates.   | Ph.D. |
| N. | Hill, R.            | The condensation of ethyl acetate, with doubly conjugated unsaturated ketones.   | Ph.D. |
| N. | Belton, J. W.       | Thermal decomposition of ozone in presence of hydrogen, of chlorine, and of bromine.   | Ph.D. |
| Q. | Clint, Hilda B.     | (1) A morphological and cytological investigation of certain species of  | Ph.D. |

- Elachistaceae*. (ii.) The life-history and cytology of *Spacelaria bipinnata*, Sauv (Pubs. of Hartley Bot. Lab, Liverpool, 1927).
- N. Williams, B. H. Thermal decomposition of hydrogen peroxide. Ph D.
- N. Moses, A. V. Refractive indices and conductivities of solutions of nickel, cobalt, and uranyl nitrates. Ph D
- Q. Mitchell, G. H. The geology of the Borrowdale volcanic series of Troutbeck, Kentmere, and the western part of Long Seedale, Westmorland Ph D.
- N. Simpson, I. A. New synthesis in the quinoline series. Ph.D.

## LONDON

- B. Tongue, E. J. The dislocations in the whole of the New Testament D.D.
- J. Ahmad, Qutbuddin. The Taluqdari law of Oudh, with special reference to the alienation of property *inter vivos* and its devolution on death testate and intestate LL.D.
- J. Bullock, F. The law relating to medical, dental, and veterinary practice. LL.D.
- J. Chowdary, V. V. Criminal responsibility in India LL.D.
- J. Masterson, W. E. Jurisdiction in marginal seas over foreign vessels and subjects to prevent smuggling. LL.D.
- J. Gutteridge, H. C. The law of bankers' commercial credits LL.D.
- L. Hankins, G. A. (a) A study of the methods used in determining the hardness of metals D Sc.  
(b) Experiments on the behaviour of metals under alternating and repeated stresses, with subsidiary contributions
- N. Williams, E. C. (1) The use of highly porous bodies in the recovery of benzole from coal or coke oven gas. (2) The purification of benzole by means other than sulphuric acid washing (*Report of Benzole Research Committee*, 1924) D Sc\*
- Q. Mann, Ida C. The development of the Human Eye D Sc.  
(*J Anat*, July 1927; *Trans. Ophth. Soc*, 1927).
- R. Best, C. H. The effect of insulin on the dextrose consumption of perfused skeletal muscle (*Proc. R S*, B, 1926). D.Sc.
- M. Fox, C. (1) Null series and integrals; (2) Generalisation of the Fourier-Bessel integral transform (*Proc. Lond. Math. Soc.*). D.Sc.

# THESES ACCEPTED FOR DEGREE OF DOCTOR 763

N.	Worsnop, B. L.	The J-phenomenon in X-rays, with subsidiary contributions.	Ph.D.
N.	Handley, F. W.	A study of certain aromatic mono- and di-sulphides.	Ph.D.
N.	Wood, F. C.	Studies on cellulose.	Ph.D.
Q	Bennett, F. T.	An investigation of fungi associated with "deaf ears" in wheat, with special reference to cladosporium forms occurring on cereals, with a subsidiary contribution	Ph.D.
C	Williams, Marjorie.	William Shenstone. a chapter in eighteenth-century taste	Ph.D.
K	Kaye, M.	Problems of democratic education.	Ph.D.
K.	Murray, J P.	The nature and knowledge of God (or the Absolute) in the philosophy of Plotinus	Ph D.
K	Thomas, R.	The moral theory of Richard Price, with subsidiary contribution	Ph.D.
S.	Forde, C D	The prehistoric geography of Brit-tany' a study of the megalithic civilization, with subsidiary con-tributions	Ph.D.
N.	Edwards, R. S	The temperature coefficient of vis-cosity of gases	Ph.D.
N	Bennett, A N. C	Researches on nitrous oxide.	Ph D.
N.	Brash, W	Deodorization of saponifiable oils, with subsidiary contributions	Ph D.
N.	Cousen, A	A study of the system silica-boric oxide—sodium oxide, with sub-sidiary contributions.	Ph D.
N.	Knight, R S. G	An investigation into the funda-mental principles underlying the stabilization of nitrocellulose, with a subsidiary contribution.	Ph.D.
N.	Walters, O. H	The absorption spectra of metallic salt vapours, with subsidiary con-tributions	Ph D.
Q.	Amurthalngam, C	On lunar periodicity in reproduction of <i>Pecten opercularis</i> near Ply-mouth in 1927-28	Ph.D.
O, Q	Davin, Adelaide G.	The effects of artificial fertilizers on the internal and external char-acters of the flax plant, with a subsidiary contribution.	Ph.D.
U.	Richards. H. F.	Some aspects of the corrosion of iron and tinplate, with subsidiary con-tributions	Ph.D.
B, I	Slosser, G. J.	Historical and critical examination of projects of Christian reunion since the Peace of Westphalia.	Ph.D.
N.	Stimson, Margaret.	(1) The motion of two spheres in a perfect fluid ; (2) The motion of a tore in a perfect or a viscous fluid.	Ph.D.

C, G.	Egger, Maria.	Comparative study of the English, Scottish, and Hungarian popular ballad	Ph.D.
C.	Hildyard, Margaret C.	A study of the literary criticism of John Gibson Lockhart, with a bibliography of his critical writings.	Ph.D.
C	Gurbaxani, H. M.	Mysticism in the early nineteenth-century poetry of England.	Ph D.
F, I.	Hasan, Saeed.	The early history of the Buwaihîd dynasty	Ph D.
K	England, F. E.	Kant's conception of God.	Ph D.
K	O'Connor, H. L.	The philosophy of Titus Lucretius Carus. its position in the history of thought, and its relation to contemporary Roman life.	Ph D.
R.	Fowler, H. L.	The development of concepts.	Ph D.
I.	Allen, Helen M.	British commercial policy in the West Indies from 1783 to 1793	Ph.D.
W	Wood, N.	Religious uniformity and English education in the sixteenth century.	Ph D.
R	Woo, Ling-liang	Dextrality and sinistrality of hand and eye	Ph D.
N.	Hawkins, F. S.	Studies of salts in anhydrous alcoholic solution, including determination of solubilities, conductivities, and viscosities.	Ph D.
N.	Evans, J. T.	The additive properties of certain conjugated compounds	Ph D.
N.	Goldberg, A. A.	Three - carbon tautomerism. the Fittig equilibria between a series of $\alpha\beta$ and $\beta\gamma$ unsaturated aliphatic acids in alkaline solution	Ph D.
N.	Hugh, W. E.	Three-carbon tautomerism.	Ph D.
N.	Kentish, W. S.	Part I.: The chemistry of the three-carbon system; The regeneration of the sodio-compounds derived from $\alpha\beta$ unsaturated ketones Part II.: The action of Grignard reagents on $\beta$ ketonic esters. Part III.: The stereochemistry of the naphthalene-diamines.	Ph D
N.	Lawrence, C. D.	The additive properties of unsaturated hydrocarbons.	Ph.D.
N	Levi, Miriam	Investigations on the boric acids.	Ph D
N.	Levin, B.	The reactivity of unsaturated cyclic ketones.	Ph D.
N.	Martin, A. R.	Studies in the electrical conductivities of some uni-univalent salts in benzonitrile.	Ph.D.
N.	Perkins, T. R.	Metallic peroxides.	Ph D.
N.	Price, W. B.	O-carboxy-benzene sulphinic acid and its reactions with quinonoid systems.	Ph.D.

# THESES ACCEPTED FOR DEGREE OF DOCTOR 765

N.	Roberts, K. C.	Derivatives of thioxanthone and their basic properties.	Ph.D.
N.	Sarin, Jiwan Lal.	The catalytic alkylation of aniline over alumina catalyst.	Ph D.
N.	Smith, J. W.	Some properties of intensively dried nitrogen tetroxide.	Ph.D.
N.	Soyka, C.	The mobility and unsaturation of amino-benzthiazoles.	Ph.D
N.	Strong, H W.	Catalytic gaseous reactions under high pressure conditions equilibria in the system methyl alcohol-carbon monoxide-hydrogen.	Ph D
N.	Style, D. W G.	Studies in photochemistry.	Ph D.
N.	Styles, E R.	The mobility and unsaturation of the <i>l</i> -alkylamino benzthiazole system.	Ph D.
N.	Taimni, Iqbal Kishen	Studies in supersaturation.	Ph D.
N.	Trew, Violet C G	Magnetic properties of binary systems of organic liquids and solutions	Ph D.
N, O.	Sharma, Hatti S.	Researches on the Hemicellulose of timbers.	Ph D
N, O.	Emmett, Alice Mabel	An investigation of the changes which take place in the chemical composition of pears stored at different temperatures, with special reference to the pectic changes	Ph D
Q.	George, C J.	(1) The morphology and development of the genitalia and efferent genital ducts in (a) Zygoptera, (b) Cercopidæ; (2) The cotton leaf hopper <i>Empoasca devastans</i> dist—(a) life-history, (b) morphology, with special reference to genital organs; (3) <i>Melipona irridipennis</i> Smith—(a) morphology and bionomics; (b) metamorphosis.	Ph.D
Q.	Dubey, V S	Tertiary igneous activity in Western India.	Ph.D.
Q.	Rohleder, H. P. T	The granite of the Mourne Mountains, Co Down, Ireland.	Ph D.
Q.	Peters, B G	Studies on saprophytic eelworms.	Ph.D.
R.	Edwards, J O.	The psychological basis of memory.	Ph.D
L.	Underwood, L R.	The heat flow and the temperature distribution in a four-stroke airless injection oil engine.	Ph.D.
N.	Hughes, L. E. C.	Experiments on microphones and loud speakers	Ph.D.
N	El Shishini, M.	Amplifying and rectifying properties of the four-electrode valve.	Ph D.
N.	Singh, H.	An investigation of the efficiency of high frequency ( $3 \times 10^6$ to $30 \times 10^6$ ) oscillators.	Ph.D.
L.	Brooks, W. H.	Problems of determining initial and maximum stresses in ties and	Ph D

		struts under elastic or rigid end constraints.	
H	Frankel, Sally H	South African railway policy, with special reference to rates and the development of the primary industries.	Ph.D.
H.	Mukhtar, Ahmad.	Factory labour in the Punjab.	Ph.D.
H, V.	Parshad, I. D.	Some aspects of Indian Foreign trade, 1757-1893.	Ph.D.
H	Viljoen, S. P. du T	Studies in economic methodology.	Ph.D.
E	Amburger, H. S. M.	Die Familiengeschichte der Koler. Ein beitrage zur Autobiographie des 16 Jahrhunderts.	Ph D.
N.	Bandopadhyaya, Golak Behari	Photoelectric effect of soft-X-rays.	Ph.D.
N.	Burch, W J N	The organic phosphorus compounds.	Ph D
N.	Burgess, S. G.	The physico-chemical properties of some derivatives of tartaric acid.	Ph.D
N.	Dickes, Winifred E.	The physical properties of solutions; the improvement of polarimetry, particularly for dilute solutions	Ph D
N	Patterson, W S	The effect of impurities upon the corrosion of zinc	Ph D.
N.	Thorne, P. C. I.	Studies in non-aqueous colloidal systems	Ph.D
M, N	Baldwin, O R	The relativity theory of divergent waves	Ph.D
H	Belasco, P. S.	Authority in Church and State, with special reference to the seventeenth century	Ph.D.
H, V.	Jain, Lakshmi C	Indigenous banking in India.	Ph.D
H	Joseph, B	Nationality: its meaning, development, and problems.	Ph.D.
J	Larkin, W	The theory of property in the eighteenth century; its historical antecedents, with special reference to England and Locke.	Ph.D.
H, I	Whitfield, E. A	Gabriel Bonnot de Mably.	Ph D

## OXFORD

T	Jackson, L. N	Some clinical observations on the blood-pressure, and the factors influencing its rise and fall	D M.
T.	Peel, A A F	Meningitis due to a pleomorphic filamentous organism	D.M.
T.	Skaife, W. F	Cerebro-spinal meningitis	D.M.
T.	Fremantle, F E	The health of the nation.	D M.
T.	Leys, D G	Chronic pulmonary catarrh.	D.M.
T.	Eastwood, Sybil R J.	Gastric secretion and other digestive factors in rosacea.	D M.
T	Gilkes, H A	An analysis of two hundred and eleven cases of atypical malaria, simulating other diseases.	D.M.



# THESES ACCEPTED FOR DEGREE OF DOCTOR 767

T.	Hobhouse, E. W. N.	The differentiation of hyperkinesis in children.	D.M.
N.	Trikojus, V. M.	The introduction of the methylenedioxy group and of similar groups into the aromatic nucleus.	D.Phil.
N.	Calvet, F.	Reactions of chloral	D.Phil.
M.	Haslam-Jones, U.S.	Results in the theory of functions of two variables	D.Phil.
J.	Khan, Mir Siadat Ali.	Usury and the principles of the Muhammadan law.	D.Phil.
R, T.	Aitken, R. S	An investigation of the concentrations of constituents in human blood plasma, with reference to the part played by the kidney in regulating these concentrations, in health and disease	D.Phil.
N.	Huxley, L. G. H.	Corona discharge in monatomic gases	D.Phil.
R.	Bush, S. F.	Factors bearing on growth and metamorphosis	D.Phil.
B, I.	Miyamoto, Shoson.	Early Mahayana Buddhism, with special reference to the doctrine of Nagarjuna	D.Phil.
N.	Parkes, G. D.	A study of some cyclic compounds containing nitrogen	D.Phil.
N.	Koepfli, J. B.	Synthetical experiments in the isoquinoline group	D.Phil.
N.	Morris, A. A.	The condensation reactions of aldehydes with phenols and related compounds.	D.Phil.
O	Callaghan, A. R.	Studies on the oat plant	D.Phil.
N, S	Gowan, E. H.	The effect of ozone on the temperature of the upper atmosphere	D.Phil.
N.	Hayman, W. R. L.	Experimental investigation of electric discharges in monatomic gases	D.Phil.
N	Van de Graaff, R. J.	(1) Ionization of hydrogen and nitrogen. (2) Velocities of ions and electrons in gases under a constant electric force.	D.Phil.
B, K	Sharp, Dorathea E	The doctrine of matter and form in the early English Franciscans.	D.Phil.
C	Stauffer, D. A.	English biography before 1700.	D.Phil.
E.	Wilson, T. J	La Calprenede Romancier	D.Phil.
N.	Clayton, H.	An investigation of the action of di-, tri-, and tetra-halogen compounds on substances capable of yielding metallic derivatives.	D.Phil.
N.	Coulson, E. A.	The nitration of benzil.	D.Phil.
N.	Lennon, J. J.	Conditions of formation and stability of carbon rings	D.Phil.
N.	Misciatelli, P	Studies in the chemistry and radioactivity of uranium and thorium.	D.Phil.
N.	Rowell, S. W.	The properties of amalgams, together with the thermal diagram for cadmium magnesium alloys.	D.Phil.

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| R. | Walker, E. | The effect of substances of defined chemical constitution upon the biochemical processes of the cell. | D.Phil |
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## SHEFFIELD

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|------|-----------------|--|-------|
| J.   | Williams, J. J. | Private Legislation Bill. History of the laws, usages, and constitution of the early English boroughs, the original constitution of municipal corporations; and the sources of their power of legislation and administration ( <i>Private Bill Legislation</i> , published by Whitehead Morris, Ltd, London, 1927) | LL.D  |
| T.   | Hirst, Marion.  | Nitrogenous metabolism in encephalitis   | M.D.  |
| N, U | Russell, A. S.  | The weathering of building stones  | Ph.D. |
| U.   | Howarth, J. T.  | The action of sodium carbonate on silica   | Ph.D. |

## WALES

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|------|--------------|--|-------|
| Q    | Pugh, W. J.  | (1) The geology of the districts around Corris and Aberllefenni, (2) Dinas Mawddwy, (3) Llany-mawddwy and Llanuwchllyn, and (4) Machynlleth and Llynant Valley.  | D.Sc. |
| N    | Soper, F. G. | 1. Action of hydrogen chloride on a dry solution of a chloroamine 2. The hydrolysis of the <i>p</i> -toluenesulphonchloroamides in water. 3. The hydrolysis of acyl-chloroamines in water 4. The ionization constant of hypochlorous acid. 5. The halogenation of phenols 6. Equilibrium in electrolyte solutions 7. The activity theory of reaction velocity, and other papers. | D.Sc. |
| O, R | Thomas, W.   | 1. Ultimate analysis of the mineral constituents of a Hagerstown silty clay loam soil, and occurrence in plants of some of the elements found. 2. The colorimetric determination of carbohydrates in plants 3. Nitrogenous metabolism of <i>Pyrus malus</i> L. 4. The seat of formation of amino acids in <i>Pyrus malus</i> L.  | D.Sc. |
| N.   | White, A. G. | Numerous papers on the propagation of flame in inflammable gas-air mixtures, the determination of ignition temperatures, etc.  | D.Sc. |

N.	Angel, T. H.	(1) The constitution of hydrocyanic acid—(a) The alleged isomerides of methylmercuric cyanide; (b) Methylmercuric halides and hydroxide; (2) Studies in the substituted dihydroresorcinols.	Ph.D.
W.	Davies, Georgina N. M.	N. F. S. Grundtvig and the Danish folk high-school movement.	Ph.D.
Q.	Fox, B.	Affinities and reactions of <i>Planaria amara</i> ; Axial gradients in <i>Distomum hepaticum</i> .	Ph.D.
O.	Griffith, G.	The reactions of North Welsh soils with phosphatic fertilizers, with special reference to the stability of the latter to leaching by percolating waters	Ph D.
N.	Hanson, N. W.	An investigation into the addition reactions of certain stereoisomeric unsaturated acids.	Ph.D.
N.	Jones, B.	The chlorination of substituted anilides and phenolic ethers, The significance of velocity measurements in relation to the problem of benzene substitution	Ph D.
Q.	Lewis, E A.	A study of Welsh helminthology. Starlings as distributors of "Gapes" A new species of the nematode genus <i>Oswaldocruzia</i> from the newt.	Ph.D.
N.	Lloyd, E.	(1) The conditions of equilibrium between certain salts and methyl and ethyl alcohols; (2) The heat of wetting of silicic acid gel	Ph.D.
O.	Provan, A. L.	The influence of various factors on the composition of milk, more especially its mineral constituents.	Ph D.
N.	Stephens, D. W.	Some physico-chemical properties of substituted diphenylamines in relation to their isomerism	Ph.D.
N.	Urry, W. D	The determination of the compressibilities of aqueous solutions of cane sugar, urea, potassium chloride and calcium chloride, and the application of the results to the calculation of the osmotic pressures.	Ph.D.
N.	Walmsley, W. C.	Studies in non-aqueous solution, with special reference to nitrobenzene.	Ph.D.

ABERDEEN

T.	Sturm, F. P.	The adenoid child.	M.D.
T.	MacDonald, T. J. C.	Studies in anæsthesia, with an appendix on the history of anæsthesia.	M.D.

T.	Geddes, A. M.	The child life of Cape Town.	M.D.
T.	Marshall, W.	Studies on the action of nitrites on blood pigments.	M.D.
T.	Menzies, Mathilda F.	A study of infant mortality, with special reference to the infant mortality of Aberdeen from 1856 to 1926.	M.D.
T.	Don, C. S. D.	The treatment of exophthalmic goitre.	M.D.
T.	Innes, I. G.	High blood-pressure: a contribution to its treatment.	M.D.
T.	James, E.	The Dick test in acute and convalescent cases of scarlet fever and in the control of passive immunization.	M.D.
T.	Law, Beatrix B.	The ocular complications of pregnancy	M.D.
T.	Mackay, R.	An investigation into an outbreak of spirochætosis ictero-hæmorrhagica.	M.D.
T.	Spence, Katherine C	(1) The clinical and physiological response to irradiation, with special reference to tuberculosis; (2) The relative efficiency of various wave-lengths in the photosynthesis of vitamin D.	M.D.
T.	Graham, W.	The "gold" treatment of pulmonary tuberculosis, notes on a series of cases treated with sanocrysin.	M.D.
T.	Inkster, Robina.	Puerperal fever.	M.D.
T.	Johnstone, A.	Some aspects of dysentery, with special reference to the bacillary form and particularly that type due to lactose fermenting organisms.	M.D.
T.	Taylor, M.	Some observations on phlebotomus fever in the Khyber Pass.	M.D.
T.	Yell, W. L.	The importance of the late broncho-pulmonary sequelæ of acute pneumonia in the diagnosis of pulmonary tuberculosis	M.D.
Q.	Gordon, Isabella.	Studies in the development of the skeleton in echinoderms.	D.Sc.
Q, O.	Laing, E. V.	Studies on tree roots: their action and development, with special reference to mycorrhiza and tree growth on peat soils.	D.Sc.
H, O.	Imper, A. D.	The economics of farm management in a section of Aberdeenshire.	Ph.D.
B.	Grant, W. M.	The interpretation of the Apocalyptic teaching of Jesus in the light of its historical setting.	Ph.D.
B, I.	Neilson, M. W.	The origin of the parish.	Ph.D.

EDINBURGH

T.	Anderson, E. W.	The sedimentation velocity of the erythrocytes in the psychoses: a study of seventy-two cases.	M.D.
T.	Bett, M. J.	Epidemic encephalitis, and the beneficial effects of collosol manganese in the acute stage.	M.D.
T.	Brewster, G.	An original investigation into cutaneous reactions in gonococcal infections	M.D.
T.	Craig, J. C. B.	The treatment of scarlet fever with specific antitoxic serum.	M.D.
T.	Croskery, S. E.	Sudden or unexpected death, with special reference to status lymphaticus and post-operative pulmonary embolism, with records of fifty-five cases, and with the results of experiments on coagulation-time of the blood before and after surgical operation	M.D.
T.	Dunlop, D. M.	The examination of the gastric contents as an aid to the diagnosis of carcinoma of the stomach	M.D.
T.	Durward, H. J. C.	Fat in infant dietetics	M.D.
T.	Fraser, J. F.	Banti's disease and its relation to splenic anæmia.	M.D.
T.	Grieve, I. M. D.	Asbestosis.	M.D.
T.	Holden, H. H.	Rheumatoid arthritis.	M.D.
T.	Hughes, G. J.	Clinical observations with a filtrate obtained from the intestinal excretion.	M.D.
T.	Kerr, D. J. A.	Forensic examination of blood and blood stains.	M.D.
T.	Kinnmonth, J. G.	The output of the heart, with observations on its variations in some pathological states	M.D.
T.	Russell, Helen M.	Malaria in the Vasilika Valley in 1925, with especial reference to the reaction of anopheles breeding water; and a plea for anti-malaria educational work in Macedonia to-day.	M.D.
T.	Smith, H. T.	Hereditary multiple telangiectasis.	M.D.
T.	Stewart, D.	Studies on the cerebro-spinal fluid in children.	M.D.
T.	Wilkie, D.	The relation between the concentration of adrenaline and its action.	M.D.
T.	Bedingfield, H.	A review of visceroptosis and allied abdominal conditions associated with chronic invalidism.	M.D.
T.	Buchanan, J. C. R.	Some clinical observations on trypanosomiasis rhodesiensis.	M.D.
T.	Edmond, J. J. B.	Yaws and syphilis in contrast, comparison, and combination; based	M.D.

- on short-course mass treatment in East Africa, with 2300 case records, 24 photographs, and 50 references to the literature
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|----|------------------------------|--|-------|
| T. | Gavin, F. W.                 | The control of diphtheria, with special reference to the Schick test   | M.D.  |
| T. | Gooding, C. G.               | Miners' nystagmus  | M.D.  |
| T. | Gray, J.                     | A clinical research on the hypnotics and their use in mental disease.  | M.D.  |
| T. | Henderson, Muriel G.         | An investigation of the gastric contents of 100 patients, with and without gastric symptoms, by means of the fractional test-meal, with a consideration of the method as a means of diagnosis. | M.D.  |
| T. | Hodgson, J. C.               | A clinical survey of fifty cases of exophthalmic goitre, with special reference to the pathology, symptomatology, and treatment of the condition   | M.D.  |
| T. | Macgown, J. C.               | Sprue  | M.D.  |
| T. | M'Latchie, J. D. P.          | The treatment of varicose veins by intravenous injections.   | M.D.  |
| T. | Milroy, G. W.                | The icterus index of the blood serum as an aid to diagnosis, treatment, and prognosis  | M.D.  |
| T. | Patterson, J. W. I.          | An experimental study of the response of the fat content of the blood to exercise in health and diabetes, with some clinical observations on the fasting level of the blood fat                | M.D.  |
| T. | Smith, N. H.                 | The incidence, prevention, and treatment of malaria in India   | M.D.  |
| T. | Wilson, A. J.                | The occurrence and significance of benign proteinuria in young men in civil life, with special reference to its influence on physical efficiency.  | M.D.  |
| O. | Copeman, P. R. van der Riet. | (a) Studies in the growth of grapes, (b) An investigation into the composition of "wilde dagga"; (c) Some effects due to the spraying of fruits  | D.Sc. |
| M. | Copson, E. T.                | (a) Some problems in the theory of the partial differential equations of mathematical physics; (b) Some applications of Holder's inequality.   | D.Sc. |
| L. | Donaldson, J. W.             | The heat treatment, volume changes, and thermal conductivities of grey cast iron between 15° and 600° C.   | D.Sc. |
| N. | Hawkins, J. A.               | A gasometric method for determination of reducing sugars, and its  | D.Sc. |

		application to analysis of blood and urine.	
O, Q	Templeton, J.	The perennial cultivation of cotton, with special reference to the cultivation of ratoons in Egypt.	D.Sc.
N, U.	Urquhart, A. R.	The adsorption of water by cotton.	D.Sc.
B	Baillie, J.	The interpretation of religion	Litt D.
B, P.	Rankin, O. S.	The origins of the festival of Hanukkah.	Litt.D.
C, E.	Ross, N.	The heroic poetry in the book of the Dean of Lismore	Litt.D.
B.	Allen, D. K	Jesus' conception of man in the Synoptic Gospels	Ph D.
B.	Barbour, C. E.	The new psychology and the Christian doctrine of sin	Ph.D.
B.	Davies, P. E.	An examination of the views of Edward Irving concerning the person and work of Jesus Christ.	Ph D.
B.	Forbes, J. R. M.	Rise and earliest development of Christian monasticism, with a study of its origin	Ph D.
B	Foid, J. A.	The theory of the kenosis as based upon the New Testament.	Ph.D.
B, K.	Fraser, F	Robert Owen and Christian Socialism	Ph D.
B	Hazzard, L. B.	The mysticism of the Fourth Gospel.	Ph D.
B	Noss, J. B	Modern psychology and the Catholic doctrine of the person of Christ	Ph D.
B	Powell, J. H.	Determinism in Calvin	Ph.D.
B.	Preus, H. A.	Luther's doctrine of the Church in his early writings	Ph D.
B	Safeley, J.	The moral dynamic in the synoptic teaching of Jesus	Ph D.
B, I	Walker, J. C.	The early history of the Presbyterian Church in Western Canada from the earliest times to the year 1881.	Ph.D.
B, I.	Gordon, J.	The <i>Liturgia Sacra</i> and <i>Professio Fidei Catholicae</i> of Valerandus Polanus (Valérand Poullan), first minister of the Reformed Church at Frankfort, 1554; transcribed and translated, with a historical introduction and notes.	Ph.D.
W.	MacTaggart, Mary M.	An investigation of the causes of backwardness at the qualifying stage, with particular reference to the percentage of children scholastically retarded owing to unsuitability of curriculum. Non-scholastic tests, mechanical aptitude tests, technical information tests, and a practical test for "backward" pupils.	Ph D.
K.	Miller, R.	A critical and experimental study in the development of moral ideas.	Ph.D.

I.	Ritchie, J. M.	A historical sketch of organized effort on behalf of the blind.	Ph.D.
R.	Rusk, W. M. R	The relationship of instinctive and rational factors in the religious attitude—a psychological inquiry.	Ph.D.
H, V.	Sirajuddin, Jamila M	A comparative study of the woollen industry in Scotland and the Punjab.	Ph D.
H, V.	Walker, J	The influence of geographical factors on the economic evolution of Scotland to the beginning of the eighteenth century, mainly as revealed in the development of overseas trade, especially that of the Clyde ports.	Ph.D.
Q	Chaudhuri, A C	(a) Experimental studies on sex , (b) A study on the pigmentation of the Himalayan rabbit.	Ph D.
N.	Desai, B N.	(a) The coagulation of $\text{Th}(\text{OH})_4$ sol by electrolytes , (b) Studies in ceric oxide sol and gel	Ph D.
O, R	Jenkins, Herminia	(a) Experiments on the pasteurization of milk, with special reference to the efficiency of commercial pasteurization , (b) A study of the non-pathogenic, gas-producing anaerobic bacilli	Ph D.
N.	Macfarlane, W. S.	Ampholytes in solution. the solubilities of some salts as a measure of hybrid ion formation in a series of amino acids.	Ph D.
N.	MacGillivray, W E	Influence of substitution in the benzene ring on optical activity menthyl esters of di-methylamino, amino, and hydroxy-benzoic acids and the octyl phthalates	Ph.D.
N.	Mackie, A.	Polarity effects transmitted through a benzene nucleus—the directive influence of the tertiary-butyl group.	Ph.D.
R.	McIsaac, P.	Studies on calcium metabolism in the rabbit	Ph.D.
Q	M'Intosh, A E. S.	(a) Perithecial development in <i>Nectria mammoidea</i> Phil and Plowr., (b) The study of <i>Nectria mammoidea</i> in culture, with an account of perithecial production in the genus, (c) Parasitism of <i>Nectria cinnabarina</i> (Tode) Fr.	Ph.D.
L.	Parekh, J. P.	Strength of columns	Ph.D.
Q.	Seaton, Mary M B	A floristical and ecological survey of West Lothian.	Ph.D.
N.	Sen Gupta, M M.	Investigations on the effects of superposition of X-radiations and the J-phenomenon.	Ph.D.



# THESES ACCEPTED FOR DEGREE OF DOCTOR 775

R, T.	Voge, C. I. B.	The colloidal properties of human serum, with special reference to the changes that take place in syphilis.	Ph.D.
Q, R.	Williamson, Isobel J. F.	Bacterial infections of certain lower vertebrates, with particular reference to furunculosis of the salmonidæ.	Ph.D.
R.	Watson, H. F	Laboratory studies on the serological phenomena in syphilis.	Ph.D.

## GLASGOW

T.	Armstrong, R	Medical treatment in dysmenorrhœa.	M D.
T.	Brown, Muriel J.	A study of the blood sugar in health and disease, with special reference to infancy and childhood	M.D.
T.	Brown, W.	The Dick test in scarlet fever	M D.
T.	Cochrane, R. G.	Leprosy, with special reference to its prognosis, treatment, and prevention	M.D.
T.	Graham, J. W.	<i>Framboesia tropica</i> (Yaws).	M D.
T.	Harvey, W. C.	An investigation into the carrier condition as it occurs in diphtheria.	M.D
T.	Henderson, D.	Typhoid fever in a mental hospital	M D
T.	Horne, W. A.	The recent work on scarlet fever	M.D.
T.	M'Cunn, Mary P	The plasma proteins in the acute infective fevers.	M D.
T.	Martin, F R.	A study of Kretschner's theory of physical types in the psychoses.	M D.
T.	Napier, W	Puerperal infection a review of five hundred cases	M D.
T.	Smith, R P.	Investigations of enteric carriers from the bacteriological, therapeutic, and economic aspects	M.D.
T.	Taylor, D O	Goitre in school children	M.D.
T.	Wylie, Margaret E.	A clinical and laboratory study of several infective fevers, with particular reference to scarlet fever.	M.D.
N, O.	M'Arthur, D. N.	The phosphates of basic slag	D.Sc.
Q.	Pemister, J	A petrological study of the composite alkaline intrusions of N.W. Sutherlandshire, with a critical examination of the evidence for assimilation and gravitative differentiation.	D.Sc.
N.	Smith, R C.	The stability of emulsions, with additional studies in rates of reaction.	D.Sc.
M.	Stewart, C. A.	Partial differential equations.	D.Sc.
O, Q.	Wardlaw, C. W.	1 The Lanarkshire strawberry disease. 2 Size in relation to internal morphology.	D.Sc.
N.	M'Alpine, Irene M.	Preparation, rotation, and decomposition of menthyl and bornyl esters of benzene-sulphonic, naph-	Ph.D.

		thalene- $\alpha$ -sulphonic and $\beta$ -sulphonic acids.	
W.	Paterson, A. C.	Practical estimation of pupils' progress in secondary schools.	Ph.D.
C, E.	Russell, J. A.	The novel in the Netherlands: a comparative study.	Ph.D.
N.	Stephen, H. W.	Derivatives of thiazole.	Ph.D.
L.	Third, A. D.	(a) The air ejector; (b) Recompression losses in the divergent nozzle.	Ph.D.

## ST. ANDREWS

T.	Ames, Dorothy H. M.	Bacilluria. a clinical study, including an examination of the renal function, and some observations on the reaction of the urine, and rate of growth of the organism.	M.D.
T.	Mitchell, Mary R.	Ultra-violet rays and their value in therapeutics.	M.D.
T.	Rycroft, B. W.	The theory and therapeutical application of ultra-violet rays in ophthalmology.	M.D.
R.	Langlands, N. M. S.	Papers on experiments on binocular vision in <i>Trans. Opt. Soc.</i> vol. xxviii, 1926-27, Binocular and vernier acuity	D.Sc.
M.	Saddler, W.	Papers on studies in form theory with its associated geometry ( <i>Proc. R. S. Edin</i> ; <i>Proc. Math. Soc. Edin</i> ; <i>Proc. Camb. Phil. Soc.</i> ).	D.Sc.
U.	Thomson, R. F.	Papers on vat dyestuffs, colouring-matters, Bases of the piperazine group in <i>J. Soc. Dyers and Colourists</i>	D.Sc.
N.	Jack, D.	The band spectrum of water vapour ( <i>Proc. R. S. A.</i> , vol. 115, p. 373, 1927).	Ph.D.
N.	Skinner, A. F.	A contribution to the starch problem The constitution of mannose diacetone, Behaviour of mannose diacetone on methylation ( <i>J. Chem. Soc.</i> , May 1926).	Ph.D.
N, R.	Smith, Winifred J.	A study of the decay of after-images due to light of various intensities and colour; The law of recurrences and decay of after-images; After-images of coloured sources	Ph.D.
N.	Steele, Catherine C.	Stereochemical researches on menthylamines and diphenylhydroxy ethylamines ( <i>J. Chem. Soc.</i> , 1927); The optically active diphenylhydroxy ethylamines and ISO hychobenzoins.	Ph.D.
N.	Stevenson, J. W.	The molecular structure of inulin.	Ph.D.

# THESES ACCEPTED FOR DEGREE OF DOCTOR 777

- C. Scott, Jessie W. W. An analytic study of the sources of Spenser's diction in the "Shepherd's Calendar." Ph.D.
- I. Thomson, Edith E. B. The administration of Scotland, 1660-1680, under the Duke of Lauderdale. Ph.D.

## BELFAST

- B. Jones, R. St. Paul's conception of the Spirit. D.D.
- T. Black, H. W. Tuberculous tracheobronchial adenopathy in children. M.D.
- R, T. Campbell, J. S. The stereoscopic radiography of the coronary circulation. M.D.
- R, T. Davison, J. C. A study in the buffering systems in various tissues and fluids of the body. M.D.
- T. Harris, H. Mental deficiency and maladjustment. M.D.
- T. Carson, W. A study of the end results of puerperal eclampsia. M.D.
- T. Kerr, C. H. The occurrence of acetonæmia in certain conditions, with special reference to its etiology and treatment. M.D.
- Q. Hunter, R. H. The transitory fissures of the human cerebrum and their relation to the so-called hippocampal fissures. Ph.D.
- L, U. McKeown, J. The loop tests in experiments in combined stress. Ph.D.

## DUBLIN

- T. Friel, E. S. Papers on odontology in *Internat. J. Orthodontia*; *Trans. Brit. Soc. Orthodontics*; *Brit. Dent. J.*; *Trans. Orthodontic Congress, 1926*. D.Sc.
- Q. Ball, N. G. Papers on phototrophic movements of leaves, transmission of stimuli in plants, etc., in *Nature*, *New Phytologist*, and *Proc. R. Dublin Soc.* D.Sc.
- R. McSwiney, B. A. The structure and movements of the cardia, together with thirteen published papers in *J. of Physiol.* and *Quart. J. Exp. Physiol.* D.Sc.
- Q. Wright, W. B. The Quaternary Ice Age (Macmillan & Co.), and other publications. D.Sc.
- N. Bailey, Mrs. K. Etymological dictionary of chemistry and mineralogy. Ph.D.
- K. Lawton, R. R. Is it ever lawful to tell a lie? Ph.D.
- C. Tonge, Mildred. Editing of a play called *The Late Lancashire Witches*, and an essay on the subject of witchcraft as handled in sixteenth- and seventeenth-century drama. Ph.D.
- W, I. Walshe, P. T. Irish education from the earliest times to the Act of Union, 1801. Ph.D.

## NATIONAL UNIVERSITY OF IRELAND

H	FitzGerald, P.	Industrial combination in England (Pitman, Kingsway).	D Sc.
R.	Conway, E.	The localization of excretion in the uriferous tubercle The influence of diuretics on secretion of sugar. The equation expressing the excretion of a diuretic and its relation to diffusion processes. The relation in diuresis between volume of urine and concentration of a diuretic, with the influence of temperature upon it	D.Sc
R, T.	O'Kelly, W. D.	Some observations on the enteric-salmonella bacilli Leuco-sarcomatosis The epidemiology of tuberculosis. Report on the value of the complement-fixation test as a means of differentiating between enteric-vaccinated and typhoid-infected persons Report on an outbreak of bacterial food-poisoning On the incidence of bovine and human viruses in human tuberculosis in Ireland.	D Sc
N.	Drumm, P. J.	Part I Substituted diaryl-ethers ( <i>J Chem Soc</i> , 1927) Di- <i>p</i> -tolyl ether Part II Friedel Crafts reaction applied to di- <i>p</i> -tolyl ether ( <i>J Chem Soc</i> , 1927).	Ph D.
N, R.	Pyne, G. T.	Investigation of pigment from <i>Chromo-bacterium violaceum</i> ; two papers. (i.) On the pigment produced by <i>C. violaceum</i> , (ii) Modified micro-method for determination of molecular weights	Ph D
N.	O'Donoghue, B.	(1) Some derivatives of $\gamma$ -piperonylidene-methylethyl-ketone. (2) Some derivatives of $\alpha$ -piperonylidene-methylethyl-ketone. (3) The commercial utilization of Java citronella oil.	Ph D.

## MANITOBA

Q, R.	Hanna, W. F.	(a) The dry-needle method of making monosporous cultures of hymenomycetes and other fungi (b) The problem of sex in <i>Coprinus lagopus</i> . (c) The inheritance of spore size in <i>Coprinus sterquilinus</i> . (d) Sexual stability in monosporous mycelia of <i>Coprinus lagopus</i> .	Ph.D.
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# THESES ACCEPTED FOR DEGREE OF DOCTOR 779

## MONTREAL

- |    |                   |   |         |
|----|-------------------|---|---------|
| E, | W. Maurice, J. O. | L'Enseignement du français et de l'Anglais. | Litt.D. |
|----|-------------------|---|---------|

## TORONTO

- |    |              |  |      |
|----|--------------|--|------|
| B. | McIntyre, J. | The authorship of the Johannine writings from a study of the text. | D.D. |
|----|--------------|--|------|

## ADELAIDE

- |    |               |   |      |
|----|---------------|---|------|
| T. | Sleeman, J. G | Puerperal septicæmia due to bacillus welchii. | M D. |
|----|---------------|---|------|

## MELBOURNE

- |    |                  |  |       |
|----|------------------|--|-------|
| T. | Wunderly, H. W.  | Angina pectoris.   | M.D.  |
| Q. | Horning, E. S. G | Structure and occurrence of mitochondria ( <i>Aust. J Exp Biol and Med Sc.</i> vols II-IV, 1925-27). | D Sc. |
| T. | Fairley, N H.    | Studies in the bilharzial diseases of man and other mammals.   | D.Sc. |

## TASMANIA

- |    |           |                                     |       |
|----|-----------|-------------------------------------|-------|
| Q. | Hills, L. | The metallogenic epochs of Tasmania | D Sc. |
|----|-----------|-------------------------------------|-------|

## WESTERN AUSTRALIA

- |   |                   |   |         |
|---|-------------------|---|---------|
| Q | Simpson, E S.     | The minerals of Western Australia.                | D Sc.   |
| Q | Larcombe, C. O G. | Geology and ore deposits of the Kalgoorlie Region | D Sc    |
| C | Wright, G. H.     | The spirit of tragedy                             | Litt.D. |

## NEW ZEALAND

- |       |                        |   |        |
|-------|------------------------|---|--------|
| R, T. | Bell, Muriel           | Basal metabolism  | M.D.   |
| T.    | Mackay, N R.           | Acute poliomyelitis   | M D.   |
| T.    | Costello, J. W.        | The fractional test-meal as a guide to gastric functions  | M D.   |
| R, T  | Easterfield, Muriel H. | Observations on human milk—new law of diurnal variation of fat content.                                       | M D.   |
| Q.    | Flett, R. I.           | Musculature of the heart.   | M.D.   |
| T.    | Tait, C. H.            | The median of the frænum of the upper lip and its influence on the spacing of the upper central incisor teeth | D.D.S. |
| T     | Nicholson, J. H. M.    | Root canal treatment in which devitalization is necessary.  | D.D.S. |
| Q     | Marwick, J             | The veneridæ of New Zealand ( <i>Trans. of N.Z. Inst.</i> , 1927, vol 57)                                     | D.Sc.  |
| H.    | Condliffe, J. B.       | The industrial revolution in the Far East.  | D.Sc.  |
| Q.    | Finlay, H. J.          | A further commentary on New Zealand molluscan systematics ( <i>Trans. of N Z. Inst.</i> , 1927, vol 57).      | D.Sc.  |
| Q.    | Yeates, J. S.          | The rôle of the nucleolus with special reference to the tmesip-terids.  | Ph.D.  |

- |    |                |   |       |
|----|----------------|---|-------|
| U. | Hosking, J. R. | The essential oil from the leaves of the kauri tree ( <i>Agathis australis</i> ). | Ph.D. |
| N. | Andrews, J. C. | Mutarotation.   | Ph.D. |
| Q. | Miller, D.     | Material for a monograph on the <i>Muscoidea calyptera</i> in N.Z.                | Ph.D. |
| O. | Hill, W. S.    | Studies in the culture of Lucerne.  | Ph.D. |

## CAPETOWN

- |    |               |  |       |
|----|---------------|--|-------|
| S. | Dommissie, J. | Mean sea level and other tidal phenomena in Table Bay ( <i>Trans Royal Soc. of S.A.</i> ). | Ph.D. |
|----|---------------|--|-------|

## STELLENBOSCH

- |       |                    |   |       |
|-------|--------------------|---|-------|
| N, U. | Lategan, P. N.     | Low temperature carbonization of South African coals (Hayne and Gibson, Printers, Johannesburg)                     | D Sc. |
| O, N. | Sinclair, St. C. O | A study of the composition of milk and the methods adopted in its analysis, from the public analyst's point of view | D Sc. |
| R.    | Verwoerd, H. L.    | Die afstomping van Gemoedsaandoeninge ( <i>Annals of the Univ. of Stellenbosch</i> , Dec. 1925)                     | Ph D. |

## WITWATERSRAND

- |    |                     |   |       |
|----|---------------------|---|-------|
| Q. | De Kock, G. v. d. W | A study of the reticulo-endothelial system in sheep | D.Sc. |
|----|---------------------|---|-------|

## ALLAHABAD

- |    |                      |  |      |
|----|----------------------|--|------|
| N. | Rajendra Nath Ghosh. | Studies in acoustics, specially with reference to stringed instruments, violin, pianoforte, etc ( <i>Indian Journal of Physics</i> , vol 1 (1926), India; <i>Philosophical Magazine</i> , vol 47 (1924), England). | D Sc |
|----|----------------------|--|------|

## BOMBAY

- |    |                 |   |      |
|----|-----------------|---|------|
| T. | Parmanand, M. J | Spirochætal fevers of India, with special reference to their etiology and pathology | M.D. |
|----|-----------------|---|------|

## CALCUTTA

- |       |              |  |       |
|-------|--------------|--|-------|
| N.    | Basu, P. K.  | (1) On thiodiazones (Parts I-VI). (2) Action of halogenated ketones on 1-substituted thiosemicarbazides (3) Studies in the thiosemicarbazane series (4) Mercaptans of the purine group | D Sc  |
| H, V. | Sinha, H. C. | Early European banking in India (1) Foreign exchange in Indian banks. (2) Seasonal stringency in the Indian money market and the remedy. (3) Forward exchange in Indian banks.         | Ph D. |

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- H, Y. Sinha, J. C. Economic annals of Bengal. Sub- Ph.D.  
 sidiary theses. (a) Some currency  
 reforms of Hastings. (b) The Dacca  
 muslin industry. (c) The earliest  
 currency committee in India  
 (1787) (d) Indian guilds. (e) His-  
 tory of Indian commerce (1767-  
 1813). (f) Economic theorists  
 among the servants of John Com-  
 pany (1765-1805).

- N. Ramdas, L. A. Molecular scattering of light: The Ph.D.  
 scattering of light by liquid sur-  
 faces and other related pheno-  
 mena.

## LUCKNOW

- T. Gupta, H. N. Some observations on ankylostomi- M.D.  
 asis.

## MADRAS

- N. Rao, K. R. The spectra of the metals of the D.Sc.  
 aluminium sub-group.  
 Q. Ayyar, K S P The oligochætes of Travancore D Sc.  
 M. Menon, K. S. Indian astronomy (Jyotisha Ve- Ph.D.  
 danga)  
 K. Rao, Y. S. The world around us a study in Ph D.  
 metaphysics.





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